Volume 161 No. 13

Oil, Paint and Drug Reporter

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Oil, Paint and Drug Reporter

Volume 161 No. 13 | 20 Church Street, New York 7, N. Y. | March 31, 1952

Defense Act Extension Bill Slated This Week

A bill to extend the defense production act for another year and to make certain other changes in the law will be presented for passage to the senate this week by the senate banking committee. Following initial closed sessions of the committee March 26, chairman Burnett Maybank, of South Carolina, said the group hoped to have the committee ready for the senate by Wednesday.

Meanwhile, the house banking committee started hearings on extension of the act last week and received a statement from the Manufacturing Chemists' Association, urging amendments to the law which would clarify the intent of congress in the Capehart amendment and restrict the profit-curbing powers of the Office of Price Stabilization. The arguments and recommendations were similar to those made on behalf of the association by John A. Sargent, executive vice-president of Diamond Alkali Company, before the senate committee (OPD, 3/17/52).

Two Major Issues Unresolved

At its first executive meeting to draw up the bill, the senate committee made much progress in settlement of some of the issues that had been raised by witnesses during the previous two-and-a-half weeks of hearings. Two big issues—revision of the Capehart amendment and provision for decontrol of commodities—were put over until this week, however.

Among the matters disposed of was an extension of the act for one year instead of two, as recommended by the President, a change in the Hurlong amendment relative to margin of retailers, and a modification of the embargo on imports of fats and oils. Also it was agreed by the committee to extend the Small Defense Plants Administration for another year.

Fats and Oils Action

The committee's action on fats and oils was to substitute the more flexible powers exercised during the war for the mandatory authority now contained in the law. During the war, the government could restrict imports when there was a surplus in this country or a shortage abroad. It was not mandatory that this be done. Under the defense production act, however, an embargo on imports becomes automatic if they are found to interfere with marketing programs or will reduce domestic production. The President asked that this provision be repealed entirely.

The change in the Hurlong amendment voted by the committee adds a new clause which will prevent the pyramiding of retail prices due to increased excise taxes. The President had asked for outright repeal of the Hurlong amendment.

Naval Stores Price Support Set for '52

Details of the 1952 naval stores price support program were published in the Federal Register March 26 by the Commodity Credit Corporation.

As previously announced, the program provides for loans to eligible producers based on the rate of $129.72 per naval stores production unit, comprised of fifty gallons of turpentine and 1,400 pounds of rosin. Initially, the production unit rate of $129.72 will be allocated to the individual commodities to provide a loan rate for turpentine of 50 cents a gallon, and a loan rate for rosin grades X to G, inclusive, of $7.48 per hundred pounds net packed in eligible metal drums.

The loans will be made throughout the year until December 31, 1952, and will mature on demand or not later than April 1, 1953. Loans to the individual producers will be handled for the CCC by the American Turpentine Farmers Association Cooperative of Valdosta, Ga.

Synthetic Rubber Extension Bill Gets House Approval

The house passed the synthetic rubber extension bill (H.R. 6787) March 26 and sent the measure to the senate for concurrent action. The senate is expected to approve.

The bill extends the life of the synthetic rubber control act for another two years beginning June 30, and is in line with the recommendations of the administration with one exception. The administration proposed that the government turn over the special purpose rubber producing facilities to private industry, but the house armed services committee rejected this recommendation and the government will continue to operate these facilities.

NPA Post to Currie

Henry H. Fowler, administrator of the National Production Authority, has announced the appointment of Walter J. Currie as assistant administrator of NPA for civilian requirements to succeed Lewis A. Weiss who has resigned effective today. Mr. Currie served as deputy assistant administrator for civilian requirements since June 21, 1951.

FDA Amends Antibiotics Rules

The federal Food and Drug Administration has announced a number of changes in its regulations covering the certification of antibiotics, including a lengthening of the potency period for several penicillin preparations to thirty-six months. The amendments were made effective March 26.

They provide for the use of one or more suitable sulphonamides in lieu of two or more in the manufacture of penicillin tablets; for the use of an expiration date for penicillin tablets prepared from crystalline penicillin, procaine penicillin, or crystalline penicillin "O," which is thirty-six months after the month in which the batch was certified; for the use of an expiration date for penicillin bougies prepared from crystalline penicillin or procaine penicillin and do not contain an excipient of polyethyleneglycol, which is thirty-six months after the month of certification.

Procaine Penicillin Change

They provide also for a minor change in the standards prescribed for procaine hydrochloride used in the manufacture of procaine penicillin; for the use of an expiration date for procaine penicillin which is thirty-six months after the month of certification; for the use of an expiration date for the dry mixture of procaine penicillin for aqueous injection which is thirty-six months from the month of certification; for the use of one or more suitable sulphonamides in lieu of two or more in the manufacture of buffered penicillin powder.

They provide also for a change in the packaging requirements for buffered penicillin to fix the minimum quantity of the drug that may be contained in one container to 500,000 units in lieu of the current requirement of 600,000 units; for exemption from certification of penicillin, streptomycin, dihydrostreptomycin, aureomycin, chloramphenicol and bacitracin if intended and labeled solely as a preservative for bull semen; for a change in the potency requirement of streptomycin tablets and dihydrostreptomycin tablets from 100 milligrams to fifty milligrams.

Antibiotic Gauze Pads

Also provided is for the use of an expiration date for streptomycin-bacitracin-polymyxin gauze pads which is twenty-four months from the month of certification if the person who requests certification has submitted to the commissioner results of tests and assays showing that after having been stored that length of time such drug as prepared by him complies with the standards provided for this product; and for the optional use of one or more suitable antifungal agents in the manufacture of bacitracin ointment intended solely for veterinary use and conspicuously so labeled.

Chemical price trend data, usually carried on this page, will now be found on page 4.

MCA Attacks Federal Industrial Safety Controls as Unnecessary

Legislation being urged by the liberal blocs in the senate and house to greatly extend the control of the federal government over industrial safety practices was attacked last week by the Manufacturing Chemists' Association as being unnecessary and likely to lead to confusion in industry that might undermine the spirit of cooperation that has been built up over the years between industry and the state and local labor officials.

The criticism was contained in a statement filed with the labor and public welfare committee of the senate and was directed specifically at the two bills on which the committee is holding hearings—S. 2315 by Senator Hubert Humphrey of Minnesota to create a Bureau of Accident Prevention in the Department of Labor for the purpose of promoting and maintaining safe and healthful conditions of employment in industries affecting commerce, and S. 2714 by Senator James Murray of Montana having the same purpose but operating through a state grant-in-aid arrangement instead of using federal safety inspectors.

House Also Has Measure

There is also a bill (H. R. 4997) pending in the house, having substantially the same objectionable features as the two senate bills, on which hearings were held last year. However, the house committee after consideration of all the testimony decided against reporting the measure for passage. The principle objection to each of the senate bills is the fact that they would permit the Secretary of Labor, either directly or indirectly, to supersede state agencies in setting and enforcement of standards.

In its statement, MCA pointed out that the chemical industry is keenly interested in any and all measures which will further reduce industrial accidents. Through the activities of its high specialized committees, the association promotes and implements accident prevention and establishment of better safety practices within the chemical industry. It was pointed out that the association has issued forty-four chemical safety data sheets for the safe handling of potentially hazardous chemicals, and members are otherwise kept informed of the latest safety developments.

Bills Opposed on Four Counts

The association's statement, submitted to the committee by M. F. Crass, jr., secretary, cited four specific reasons for opposing enactment of the bills. They were:—

"1. Federal control would duplicate existing state control.—State agencies charged with the administration of state labor laws already have the legal power to enforce safety measures. There is no state or territory in the union that does not now have safety legislation on the books. In all but two, the state safety administrators have either specific statutory requirements which they may enforce, or authority to promulgate safety codes or regulations. Adequate machinery thus already exists for the maintenance of industrial safety by legal means. There is no need for imposing additional federal control on top of state control, with attendant administrative and overhead costs to be supported by federal taxes," MCA stated.

"Many industries are now subject to inspection by state and local agencies and voluntarily submit to inspection by such private organizations as the National Safety Council. In addition, the insurance companies which provide compensation, public liability, and property damage insurance have been carrying on for years a most effective campaign against safety hazards. Moreover, industry itself has

—Continued on page 63

Quebracho Use Restrictions For Oil Well Drilling Lifted

To help the petroleum industry reach and maintain the high output demanded by the present defense emergency, the restriction limiting use of quebracho in oil well drilling to 60 percent of base period consumption was lifted March 26 by the National Production Authority.

J. G. Schnitzer, director of NPA's leather and leather products division, announced the action, achieved by amending M-57, the vegetable tanning material conservation order. This order was issued April 1, 1951, to advance stockpiling of three important tanning materials—quebracho, wattle and chestnut.

"NPA decided to remove the percentage restriction on the drilling industry's use of quebracho after the industry and the Petroleum Administration for Defense established the fact that quebracho substitutes are not adequate for drilling in all types of formations and also are insufficient in quantity. Removal of the restriction was urged by NPA's quebracho distributors industry Advisory Committee at its December, 1951, meeting," Mr. Schnitzer stated.

Most suppliers and distributors of quebracho will be required to file an inventory and operations report on NPAF-179. An additional monthly statistical report may be required (on NPAF-179A) to keep the agency abreast of quebracho supply and use. NPA does not intend to ask this continuing report from such small users as makers of pharmaceuticals, vegetable tanning acids and water treatment materials, Mr. Schnitzer explained.

DDT, Sulphur Applications For Export May Be Submitted

The Office of International Trade announced March 28 that the second quarter export license applications for DDT, conditioned sulphur and sulphur formulations containing 20 percent or more sulphur may be submitted immediately. Prompt action by exporters will permit early licensing against the second quarter quotas soon to be established, it was stated.

Because of domestic requirements for DDT in the spring and summer, the second quarter export quota for this insecticide is expected to be substantially lower than the 14,700,000 pounds licensed for export in the first quarter. Conditioned sulphur and sulphur formulations containing 20 percent or more sulphur were licensed against an export quota of 9,160,000 pounds in the first quarter. BHC formulations containing 20 percent or more sulphur were licensed on an open end basis without specific quantative restrictions. In the second quarter, these three types of insecticides probably will be licensed against a single quota.

Belgium Reported Signing Tin Agreement With RFC

The Association of Belgian Congo Tin Producers have signed an agreement with the Reconstruction Finance Corporation calling for the delivery to this country of a minimum of 7,000 tons and a maximum of 9,000 tons of tin annually, according to reports from Brussels, Belgium, last week. The amount contracted for is equivalent to approximately half of the Belgian Congo's production.

The price reportedly is $1.20¾ per pound, delivered at American ports, which is equal to $1.18, f.o.b. Singapore. It was said that delivery will be made partly in the form of tin ore concentrates. The agreement, which runs for two years, was said to provide for a price adjustment in Belgian Congo tin in the event that the United States signs a tin contract elsewhere at a higher price. The contract becomes non-operative when the US industrial price index rises by 15 percent.

MSA Signs Aluminum Accord with Greek Firm

The Mutual Security Agency has signed a contract with a Greek company, Eleusis Bauxite Mines, SA, calling for an advance of $120,000 to start large-scale mining operations of bauxite deposits at Eleusis. MSA said the United States would be repaid in the form of 100,000 tons of aluminum for the stockpile. The Greek company will deliver 450,000 tons of bauxite ore to Germany by 1954, where two companies will refine the ore into pure aluminum metal for final delivery to the American stockpile.

DPA Authorizes New Chemicals Expansion

The Defense Production Administration issued an additional batch of 587 tax amortization certificates during the period February 16 to 29, including over forty certificates covering expansions of production in the area of the chemical industry, the agency announced March 25.

Of the total approvals, 269 certificates were for facilities involving proposed expenditures of $100,000 or less to which projects DPA gives special consideration to encourage small defense plant expansion. Certificates issued for expansions in the chemical and allied industries included the following:—

Amortization Certificates Listed

Ammonium sulphate—Rohm & Haas Company, Philadelphia, $240,718 applied for and 45 percent of $213,878 approved.

Anilin—E. I. duPont de Nemours & Co., Gibbstown, N. J., $107,000 applied for, of which 60 percent was granted.

Antimony oxide—National Lead Company, Perth Amboy, N. J., $194,066 applied for, of which 60 percent was granted.

Barium sulphonate—Sinclair Refining Company, Houston, Tex., $175,000 applied for, of which approvals were given to 15 percent of $23,480, 50 percent of $23,700 and 65 percent of $98,650.

Benzene—Sloss-Sheffield Steel & Iron Company, Birmingham, Ala., $83,100 applied for, of which 90 percent was granted.

Benzoic acid—Monsanto Chemical Company, St. Louis, Mo., $700,000 applied for and 50 percent of $262,500 was granted.

Boric acid—Pacific Coast Borax Company, Wilmington, Calif., $199,074 applied for, of which 30 percent was granted.

Butane and propane—Hugoton Production Company, Ulysses, Kans., $360,000 applied for and 65 percent of $280,403 was granted; Warren Petroleum Corporation, Tulsa, Okla., $644,340 applied for and 65 percent of $566,320 was granted.

Chemicals—Pennsylvania Industrial Chemical Corporation, Chester, Pa., $7,640,800 applied for, of which 60 percent was granted; Dow Chemical Company, Freeport, Tex., $5,000,000 applied for and 45 percent of $4,984,500 was granted.

Chemical additives—Lubrizol Corporation, Wickliffe, Ohio, $887,131 applied for and approvals were given for 15 percent of $325,403, 45 percent of $196,362, and 65 percent of $247,511; a second project by the same firm at Deer Park, Tex., $2,044,139 applied for and approvals were given for 15 percent of $655,807, 45 percent of $548,637 and 65 percent of $44,437.

Chemical equipment—General Ceramics & Steatite Corporation, Keasbey, N. J., $148,031 applied for, of which 50 percent was granted.

Chemicals for photographic films—General Aniline & Film Corporation, location not shown, $1,600,000 applied for and 45 percent of $1,509,500 was granted.

Chemical grade limestone—Alcoa Mining Company, Love Hollow, Ark., $325,750 applied for, of which 70 percent was granted.

Chemical products—Dow, Midland, Mich., $998,200 applied for, of which 45 percent was granted.

Chloroform and hydrochloric acid—Dow, Freeport, Tex., $215,000 applied for, of which 60 percent was granted.

Coke and byproducts—Eastern Gas & Fuel Associates, Everett, Mass., $3,014,889 applied for, of which 40 percent was granted.

Cottonseed oil, linters—Western Cottonoil Company, Lubbock, Tex., $7,684,096 applied for, of which 25 percent was granted.

Cyclohexane—Phillips Petroleum Company, Borger, Tex., $1,900,700 applied for and approval was given to 45 percent of $325,090 and 90 percent of $1,230,990.

Diphenylamine—DuPont, Gibbstown, N. J., $204,000 applied for, of which 50 percent was granted.

Ferric chloride—Dow, Pittsburg, Calif., $265,000 applied for and approval was given to 45 percent of $16,000 and 35 percent of $249,000.

Fluorspar—J. R. Simplot Company, Meyers Cove Idaho, $264,800 applied for and 70 percent of $174,740 was granted; Ozark-Mahoning Company, Jackson County, Colo., $250,000 applied for, of which 60 percent was granted; a sec-

—Continued on page 60

'Krilium' to Be Marketed For Next Spring's Needs

"Substantial amounts" of "Krilium," Monsanto Chemical Company's new soil conditioner, will be marketed in time for next spring's home garden needs, and for agricultural and erosion control purposes, Charles A. Thomas, president, revealed at the company's annual stockholders meeting in St. Louis, Mo., last week.

"We'll manufacture 'Krilium' in presently available equipment at several plants rather than build a new plant for it at this time," Mr. Thomas said. Such a plan, it was pointed out, would allow Monsanto to establish commercial products at the earliest possible time.

Stauffer Chemical Forms New Export Subsidiary

Stauffer Chemical Company, San Francisco, Calif., has announced the formation of Stauffer Panamerican Company, a wholly-owned subsidiary which will handle all export sales in the western hemisphere. Offices are being established in several of the principal cities throughout the South and Central American countries and Canada. Stauffer has been in the export business for over 50 years. Recently, however, the volume of sales into these areas has grown to the point that a separate organization was needed to handle the business, the company stated.

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US Share of World Copper Supply Cut; Zinc Increased

The United States has been allocated 10,400 less tons of copper but 6,800 tons more zinc during the second quarter than in the first quarter of this year by the copper-lead-zinc committee of the International Materials Conference, it was announced March 26.

Out of total world supplies of 723,680 metric tons of copper, the United States has been allotted 355,600 metric tons for the second quarter, which compares with 366,000 metric tons in the first quarter when supplies were estimated at 744,680 tons. Zinc allocations to the United States amount to 235,000 metric tons for the second quarter out of a total supply of 510,145 metric tons, as against 229,000 metric tons in the first quarter from a total supply of 487,650 tons.

IMC said that the estimate of copper production on which the first quarter distribution was based has since had to be revised downwards. However, second quarter estimates of production do in fact show an increase over revised first quarter figures. Estimates for the second half of 1952 indicate that the rate of production is increasing, IMC added, but the amount of copper available to consumers in each of the two following quarters is unlikely to be substantially greater than the tonnage which has been allocated during the second quarter.

On the other hand, IMC said that data submitted by participating governments forecast an increase in zinc availabilities of approximately 20,000 metric tons in the second quarter and the supply is expected to continue to improve during the second half of 1952.

Dewey & Almy Elects

Dewey & Almy Chemical Company, Cambridge, Mass., has elected T. T. Miller as vice-president in charge of marketing and George W. Blackwood as vice-president and general sales manager.

DMPA Signs Pact to Add Electrolytic Manganese

The nation's output of electrolytic manganese will be doubled under an agreement reached March 25 by the Defense Materials Procurement Agency and the Electro Manganese Corporation of Knoxville, Tenn., sole American producer.

Jess Larson, administrator of DMPA, said the company will expand its facilities with a $2,250,000 government advance to double present production of the metal, which is 7,200,000 pounds a year. The advance, which carries the usual interest rate of 4 percent annum, will be repaid by the company by a toll charge on the electrolytic manganese produced by the new facilities. Under terms of the agreement, DMPA agrees to purchase, at a discount, up to 36,000,000 pounds of the metal produced by the new equipment, providing the company cannot sell it to other buyers at regular prices. The contract will extend for five years after the new plant goes into operation some time during late 1953 or early 1954.

Fatty Acids Production Reported for February

February production of saturated fatty acids amounted to 14,254,000 pounds, substantially unchanged from January levels, the Association of American Soap and Glycerine Producers has reported. With a slight increase in disposition, stocks declined 1,192,000 pounds during the month to 17,031,000 pounds at the close.

Production of unsaturated fatty acids in February amounted to 15,645,000 pounds, a moderate increase over February. Disposition was also moderately higher, and stocks declined 1,663,000 pounds during the month to 24,717,000 pounds at the close. Total fatty acids production during February was 29,899,000 pounds. Total consumption was 32,638,000 pounds, of which total 14,830,000 pounds were saturated acids and 17,808,000 pounds were unsaturated acids.

Oil, Paint and Drug Reporter, Vol. 161, No. 13, March 31, 1952. Published every Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, Cuba, Central America and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879. Copyright, 1952, by Schnell Publishing Company, Inc.

Price Index Turns Higher

After twelve weeks of continuous decline, the over-all price index for chemicals, oils, and drugs turned upward 0.2 point last week but was 6.2 points below the level established on January 4. Three of the ten major market divisions shifted index numbers, essential oils and botanical drugs rising, and oils, fats and waxes falling. The over-all index was 13.6 points below the corresponding week last year.

Demand for essential oils and aromatic chemicals revived, being considerably better than at any time since January. The market for oils and fats broke wide open and some prices set new lows for the season. Lack of demand brought heavy liquidations in the futures market. Sales of some heavy chemicals surged upward and hope for a broader demand was encouraged. In agricultural chemicals, international shortage of all solid nitrogen chemicals was more apparent. Demand for protective coatings was spotty and the market seemed fairly easy. Textile and leather chemicals were quiet.

Except for forty changes in botanicals listed on page 65, price changes during in the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Beeswax, crude, African, 2c per lb. (76).
Brazilian, 3c. per lb. (76).
Central American, 2c. per lb. (76).
Carnauba wax, No. 1 yellow, 3c. per lb. (76).
No. 2. yellow, 3c. per lb. (76).
Geranium oil, Bourbon, 2.65 per lb. (67).
Grapefruit oil, 20c. per lb. (67).
Lauric acid, 90%, 1c. per lb. (76).
Olive foots, ¼c. per lb. (76).
Peppermint oil, natural, 20c. per lb. (67).
redistilled, 25c. per lb. (67).

Prices Reduced

Babassu oil, ½c. per lb. (76).
Bone meal, steamed, $2.50 per ton (44).
Bonemeal, steamed, $2.50 per ton (44).
Tankage, 50c. per unit of ammonia (44).
Casein, domestic, standard, 1c. per lb. (71).
Argentine, 3¼c. per lb. (71).
Castor oil, dehydrated, ¾c. per lb. (76).
No. 3, tech., ¾c. per lb. (76).
refined, deodorized, ¾c. per lb. (51).
sulphonated, 1c. per lb. (49).
USP, ¾c. per lb. (51).
Citral, 50c. per lb. (67).
Citronellal, 15c. per lb. (67).
Coconut oil, crude, Pac. coast, ½c. per lb. (76).
New York, ½c. per lb. (76).
refined, ½c. to ¾c. per lb. (76).
Copra, $10 per ton (76).
Coriander oil, 50c. per lb. (67).
Corn oil, crude, ½c. per lb. (76).
refined, ¼c. per lb. (76).
Cottonseed oil, crude, ¾c. per lb. (76).
refined, ¾c. per lb. (76).
Eucalyptus oil, 80-85%, 15c. per lb. (67).
Fish oil, refined, 1c. per lb. (76).
Geraniol, extra, 25c. per lb. (67).
Geranyl acetate, 50c. per lb. (67).
Greases, ¼c. per lb. (76).
Hydroxycitronellal, 45c. per lb. (67).
Lard, ½c. per lb. (76).
Lemon oil, California, 15c. per lb. (67).
Linseed fatty acid, 8/10c. per lb. (76).
Molasses, blackstrap, ½c. per gal. (51).
Myristic acid, 4c. per lb. (76).
Naphthalene, crude, imported, ¼c. per lb. (46).
Nutmeg oil, East Indian, 20c. per lb. (67).
Oiticica oil, ¼c. per lb. (76).
Palm oil, clarified, 1c. per lb. (76).
Peanut oil, crude, ¼c. per lb. (76).
refined, ¼c. per lb. (76).
Rice bran, crude, ½c. per lb. (76).
refined, 1½c. per lb. (76).
Sassafras oil, artificial, 5c. per lb. (67).
Shellac, lemon No. 1, ½c. per lb. (71).
bleached, 1½c. per lb. (71).
Sorbitol solution, commercial, aqueous, ¼c. per lb. (51).
regular, 70%, aqueous, ¼c. per lb. (51).
Soybean, alkali, refined, ½c. per lb. (76).
clarified, ½c. per lb. (76).
crude, ½c. per lb. (76).
salad, ½c. per lb. (76).
Streptomycin, unlabeled, 1-gm. vials, 8.4c. per vial.
5-gm. vials, 44.6c. per vial.
Tallow, ¼c. per lb. (76).
fatty acid, hydrogenated, ½c. per lb. (76).
sulphonated, ½c. per lb. (49).
Tankage, 50c. per unit of ammonia (44).
Tung oil, ¼c. per lb. (76).
Wormseed oil, 15c. per lb. (67).

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

Mar. 28, 1952	Mar. 21, 1952	July 1, 1950	Mar. 30, 1951
140.8	140.6	121.1	154.4

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1952	1951	1947	1946	1941
January	146.6	150.8	150.9	135.3	107.3
February	144.7	153.3	151.9	135.4	110.2
March	141.5	154.3	154.9	135.2	119.9

DuPont Nitrogen Products Sales Post to Clarence Bell

Clarence D. Bell, general laboratory director in the polychemicals department of E. I. duPont de Nemours & Co., Wilmington, Del., on April 1 will become assistant manager of the department's nitrogen products sales section. He will succeed Dr. Frank G. Keenen who recently became the section manager.

Also effective April 1, McKay Collette, field salesman for the nitrogen products sales section in Kansas, Iowa, Illinois, and Missouri, will be transferred to the sales promotion section in Wilmington, and Vernon S. Peterson, midwest manager of the public relations department extension division, will replace Mr. Collette.

Chlorinated Solvents Output Goals Fixed

Expansion goals for four chlorinated solvents—trichlorethylene, carbon tetrachloride, perchlorethylene and methyl chloride—were announced March 28 by the Defense Production Administration. They are as follows:—

Trichlorethylene—To be increased to 400,000,000 pounds by January 1, 1955, an increase of 123,000,000 pounds over January 1, 1951; carbon tetrachloride—to be increased to 331,000,000 pounds by January 1, 1955, an increase of 107,000,000 pounds over January 1, 1951; perchlorethylene—to be increased to 180,000,000 pounds by January 1, 1955, an increase of 75,000,000 pounds over January 1, 1951; methyl chloride—to be increased to 72,000,000 pounds by January 1, 1955, an increase of 38,000,000 pounds over January 1, 1951.

All in Short Supply

These chlorinated solvents have been in short supply during 1951, the DPA said. Methyl chloride is under government allocation. The others are under informal industry allocation, with NPA consultation.

DPA said that for methyl chloride and carbon tetrachloride sufficient applications for certificates for rapid tax amortization have already been received to reach the announced goals. For trichlorethylene, expansion has been planned by industry to within 10,000,000 pounds of the goal, and for perchlorethylene the planned expansions are within 11,000,000 pounds of the goal.

Trichlorethylene is used principally in degreasing metals, and this use will be greatly expanded by the metal working industries during the defense production period, DPA said. About 40 percent of the carbon tetrachloride is used in the production of refrigerant gas. About 20 percent is consumed for degreasing metal and machinery and 10 percent in fire extinguishers, and agriculture uses about 15 percent for grain fumigants and insecticides.

Methyl Chloride Uses

The largest consumption of perchlorethylene is in small unit dry cleaning operations. It is also used in the metal degreasing field. Methyl chloride is used in the production of highly critical silicones and butyl rubbers. DPA said that requirements for these products are increasing and currently amount to about 80 percent of the total supply of methyl chloride.

Eagle-Picher Elects Dice

Eagle-Picher Company, Cincinnati, Ohio, has elected William R. Dice to its board of directors to succeed the late Vincent H. Beckman.

P.A.'s-Eye View of Business

Composite view, March 30, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents.

The March survey of purchasing opinion finds no material improvement in overall industrial activity, as production increases are about balanced out by declines. Scheduled backlogs of orders continue to slip, but at a slightly slower pace than in the past three months. Usually, these surveys show a sharp seasonal pickup in production and orders in March. This year, the trends indicate more of a leveling off than a lift. One bright spot is the tendency to close the gap between declining back orders and the rate of production, to bring supplies more in line with demand; the first such movement noticeable since the wide spread developed in December.

Prices are definitely on the down trend, particularly in soft goods. Competition is keen for the volume business which is necessary to meet high break-even points. Inventories are continuing down, for purchased materials. Employment is off, when, seasonally, it should increase. The predominant buying policy is in the mid-range between thirty to ninety days. Available supplies and production are catching up with demand in most materials.

Industrial purchasing executives, asked to make a comparison of present defense production with that at the peak of World War II, reported—59 percent have less than 5 percent of their World War peak; 25 percent have five percent to 20 percent, and 16 percent are currently doing from 20 percent up—which probably creates the current conflict of opinion on, "Why so much controlling to insure so little?"

Commodity Prices

Industrial materials price structures in March show many more soft spots, with others developing. Concessions from many ceiling prices are freely offered. Holders of large supply stocks, secured in anticipation of increased defense production, are endeavoring to liquidate, particularly in nondurable lines. Fabricators are hard hit by the reduction of back orders, the stretch-out of demands for defense production and cancellations, making them keenly competitive for volume business to support their high break-even points. Purchasing agents are naturally taking a very cautious position, in view of these conditions.

Inventories

With no incentive to stock being created by the price trends, production cutbacks and much easier availability of many materials, industrial inventories have taken another sharp drop in March, the fourth consecutive month to report this condition. Freer offerings of previously hard-to-get items, such as strip steel, are not finding ready acceptance beyond immediate needs. The threat of a steel strike or price increase does not seem to be affecting the prevailing conservative inventory policy.

Employment

Labor supply appears to be easing in most areas, except for the highly skilled people—engineers, designers and toolmakers. Layoffs and separations again exceed the additions to payrolls. Lower production schedules and the discontinuance of securing employees in anticipation of defense production orders are principal causes given. More short time and discontinuance of second shifts are reported this month.

Buying Policy

The middle of the range from hand-to-mouth to ninety days is still the predominant policy of industrial buyers. Even the release of substantial quantities of CMP materials for the third quarter has not changed the trend to close buying. Price weakness and the tendency to adjust from

—*Continued on page 82*

Nitrogenous Fertilizer Supply Boost Expected

Supplies of nitrogenous fertilizers are expected to be about 10 percent higher during the current fertilizer year than during 1950-51, O. V. Tracy, director of the chemical division of the National Production Authority, announced March 25.

Data on chemical nitrogen and phosphatic fertilizer supplies for 1951-52; estimates of the total sulphur requirement for the production of superphosphates, and an outline of future prospects for the production of urea and nitraphosphates are contained in Mr. Tracy's resume.

The production of wet process superphosphate for 1951-52 is estimated at approximately the same as 1950-51 production in spite of the 99 percent limitation on sulphur use established in NPA's sulphuric acid order, M-94. Total production of superphosphates will be better than might be expected on the basis of the sulphur use limitation, Mr. Tracy said, because of (1) the higher rate of operation of the industry during the current calendar year; (2) the expected increase in the use of spent and metallurgical acid, and (3) base period adjustments made in sulphur usage under NPA's sulphur order, M-69, amended.

Superphosphate Order Need Questioned

Commenting on the close balance between supply and demand for superphosphates in certain areas, Mr. Tracy said NPA questions the need for issuing a superphosphate distribution order so long as the phosphatic fertilizer industry continues to cooperate in eliminating distribution problems.

The agency believes 95 to 98 percent of the phosphatic produced for delivery this year will not involve any dislocation of supply. To aid the industry, he pointed out, the NPA chemical division will continue to obtain necessary adjustments in the flow of sulphuric acid to alleviate regional shortages, an important contributory factor in existing dislocations.

Trends in the production of solid nitrogen materials, particularly urea and nitraphosphates, are becoming important, Mr. Tracy said. Based on applications for certificates of necessity, it is estimated that more than 500,000 tons of urea may be available in 1955. With growing domestic technical knowledge it is expected that urea output will increase sufficiently to conform to expanding agricultural and industrial requirements.

Production of Nitraphosphates

Although programs for the production of nitraphosphates are slow in being developed, considerable progress is being made as agricultural needs become better established and as the need for conserving sulphuric acid becomes more urgent, Mr. Tracy said. In the future greater use of nitric acid processes may be expected.

Total chemical nitrogen materials available for domestic agricultural use for 1951-52 are estimated at 1,414,000 short tons or about 10 percent more than was available in 1950-51. Estimated supplies of normal and concentrated superphosphates for 1951-52 are:— Commercial superphosphate containing 18 percent phosphate including wet base goods, 9,272,000 tons; concentrated superphosphate containing 45 percent phosphate, 770,000 tons.

The total amount of sulphuric acid (expressed as 100 percent H_2SO_4) which is expected to be available for the production of normal and concentrated superphosphates is estimated at 3,810,000 tons or only 40,000 tons less than was used during the calendar year 1950, the base period use for sulphur.

General Chemical Acquires Piscataquis Iron Works Corp.

General Chemical Division, Allied Chemical & Dye Corporation, New York, has announced completion of an agreement to purchase the Piscataquis Iron Works Corporation of Bangor, Maine, for $1,200,000. The transaction covers extensive acreage of undeveloped mineral and timberlands in Maine including a deposit of pyrrhotite ore which General now leases.

General Chemical is presently using pyrrhotite, pyrites and other sulphur-bearing ores wherever possible in its sulphuric acid manufacturing operations in the place of critically-short elemental sulphur. The property is being acquired by General Chemical as a future source of these ores which may be drawn upon to provide raw material in the manufacture of Sulphuric Acid, as other sources of supply become depleted or uneconomic.

Cyanamid Forms New Construction Subsidiary

K. C. Towe, president of American Cyanamid Company, New York, announced today the recent formation of a new corporation, Chemical Construction (Inter-American), Ltd. A Cyanamid subsidiary, with main offices in Toronto, Canada, Chemical Construction (Inter-American) Ltd., will design and build chemical plants in all nations of the Western Hemisphere except the United States. Its operations will parallel those of another Cyanamid unit, Chemical Construction Corporation, which designs and builds chemical plants in the United States and throughout the world.

President of the new company is W. R. Geddes, assistant to the president of North American Cyanamid, Ltd., which is wholly-owned by American Cyanamid Company.

Hercules Elects Nixon Board Vice-Chairman

Anson B. Nixon last week was elected vice-chairman of the board of directors of Hercules Powder Company, Wilmington, Del. A vice-president of the chemical company since 1940, and a member of the board since 1932, Mr. Nixon takes the post of vice-chairman of the board following the retirement of Leavitt N. Bent.

Edward B. Morrow, Hercules vice-president, was elected chairman of the finance committee, suceeding Russell H. Dunham, who has relinquished chairmanship of the committee, while remaining a member of the finance committee. Mr. Morrow has been a director of the company and a member of the finance committee since 1937. Formerly treasurer of the company, he was elected a vice-president in 1943.

Eli Lilly & Co. Establishes New Bulk Sales Division

Eli Lilly & Co., Indianapolis, Ind., has announced the establishment of a bulk sales division. John F. Lee, who has served in several capacities in the Lilly marketing organization for thirteen years, has been appointed to head up the new unit.

Emery Gets US Go-Ahead On New Plant Construction

Emery Industries, Inc., Cincinnati, Ohio, has received government permission to start construction on its new $2,000,000 plant for the oxidation of oleic acid by ozonization. With this announcement, Emery disclosed the results of an extensive research program during which its chemists and engineers cooperated with the Welsbach Corporation of Philadelphia, to reduce to practice, the first large-scale use of ozone in a chemical process industry.

While the application of ozone to difficult oxidation problems is not new, Robert Van Tuyle, Emery's chemical director, revealed that in the ozonalysis of oleic acid, problems arose calling for the development of new technics to make this process practical. Certain of these will be the subject of patents. Production from this new plant will greatly increase Emery's present output of azelaic and pelargonic acids, the two products which result from the oxidation of oleic acid, the company stated.

Washington Talks It Over

By Ralph L. Cherry

Congress has a good chance of winding up its work on schedule this year, and possibly before the political conventions in July. For the first time in years, the house expects to have every one of the annual appropriation bills passed and on their way to the senate before the Easter recess, and it will then be up to the senate—as it always is—whether the rest of the business can be finished up in time to adjourn in July.

The legislative leadership on both sides of the Capitol and of both political parties have no desire to prolong the session just for the sake of trying to pass all the bills on the President's calendar. This year's political campaigns will be far too important to most of them to keep congress in Washington in continuous wrangle over issues that have been fought over for years without apparent progress.

As it now stands, it appears probable that the most to be expected will be enactment of the regular appropriation bills, passage of the bills continuing the defense production act, passage of the foreign aid program, and a few incidentals of far lesser importance. Then Congress will either adjourn sine die or go into recess, to be in readiness in case the international situation should worsen and require new legislation.

New tax legislation is definitely being cast aside and there is a possibility that the customs simplification bill might also die on the vine. The Republicans don't like it even though many of their objections to the legislation were met by amendments made in the house. But if they choose to make an issue of it to the point of prolonging the session beyond July, it too would be cast aside. Civil rights legislation and Taft-Hartley act revisions, though on the President's agenda, are not being considered.

Guayule Tires Studied

The Department of Agriculture, which is carrying on extensive research into guayule and other rubber-bearing plants, has been very much encouraged by results of road tests of its guayule tires.

Approximately 4,500 pounds of low-insoluble deresinated guayule rubber have been supplied to tire manufacturers to be made into heavy duty truck tire carcasses and into passenger tires. The first lot of these tires has undergone road tests on the truck fleet of the RFC Office of Rubber Reserve.

The department reports that the test was discontinued at 50,000 miles, at which point one of the three 100 percent hevea carcasses and one of the three 100 percent deresinated guayule carcasses had not yet failed. Of the remaining two tires of each type, those made of guayule equalled or exceeded the mileage of the hevea tires before failing.

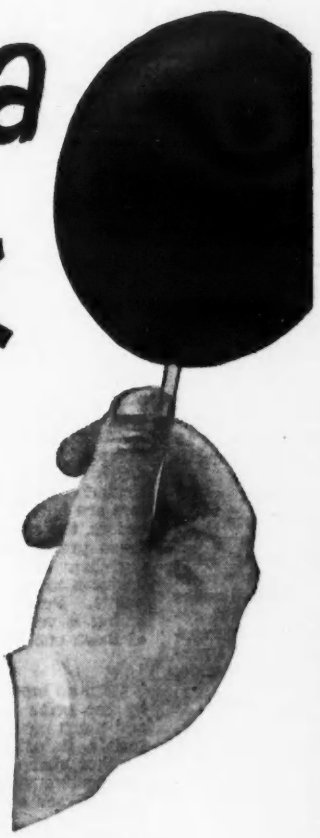
The tests also indicated that tire carcasses made of a blend of GRS and guayule are equal to those made of a blend of GRS and hevea.

Jewel Bearing Industry Plans

The results of a misguided policy of the past decade that allowed the jewel bearing industry in this country to virtually die on the vine because it was so much cheaper and easier to obtain these products from abroad, are now beginning to show up in the defense effort. Precision timers are an absolute necessity in the modern war machine, but when the military leaders began looking into sources

—*Continued on page 34*

Wanna Lick



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Association Meetings

American Association of Textile Chemists and Colorists, annual meeting, Statler hotel, Boston, Mass., November 6-8.

American Drug Manufacturers Association, annual meeting, Homestead hotel, Hot Springs, Va., April 28-May 1; production and engineering section, spring meeting, Homestead hotel, Hot Springs, Va., May 14-15.

American Management Association, spring manufacturing conference, Statler hotel, New York, April 7-9.

American Oil Chemists Society, spring meeting, Shamrock hotel, Houston, Tex., April 28-30.

American Pharmaceutical Manufacturers Association annual meeting, Boca Raton Club, Boca Raton Fla., April 7-9.

American Plant Food Council, annual meeting, The Homestead, Hot Springs, Va., June 19-22.

American Society for Testing Materials, annual meeting, Statler and New Yorker hotels, New York June 23-27.

American Soybean Association, annual convention, Purdue University, Lafayette, Ind., September 9-11.

American Standards Association, annual meeting, Waldorf-Astoria hotel, New York, November 19.

American Tung Oil Association, annual meeting, Admiral Semmes hotel, Mobile, Ala., October 8-10

American Water Works Association, annual conference, Kansas City, Mo., May 4-9.

American Zinc Institute, annual meeting, Statler hotel, St. Louis, Mo., April 21-22.

Animal Health Institute, annual meeting, Edgewater Beach hotel, Chicago, April 23-25.

Association of Consulting Chemists and Chemical Engineers, general symposium, Belmont Plaza hotel, New York, April 22; outing, Westchester Country Club, Rye, N. Y., June 6; annual symposium, Belmont Plaza hotel, New York, October 28.

Chemical Institute of Canada, annual conference and exhibition, Mount Royal hotel, Montreal, June 2-4.

Chemical Specialties Manufacturers Association; midyear meeting, Copley-Plaza hotel, Boston, Mass., June 8-10.

Drug, Chemical and Allied Trades section of New York Board of Trade, annual meeting, Pocono Manor Inn, Pocono Manor, Pa., September 25-28.

Electrochemical Society, spring meeting, Benjamin Franklin hotel, Philadelphia, May 4-8.

Federal Wholesale Druggists Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 14-18.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 20-22.

Flavoring Extract Manufacturers' Association, annual meeting, Edgewater Beach hotel, Chicago, May 25-28.

Forest Products Research Society, annual meeting, Schroeder hotel, Milwaukee, Wis., June 23-25.

Fragrance Foundation, annual meeting, Pierre hotel, New York, April 24.

Histochemical Society, annual meeting, New Yorker hotel, New York, April 7-9.

International Organization for Standardization, triennial meeting, Columbia University, New York, June 9-21.

International Grassland Congress, Pennsylvania State College, State College, Pa., August 17-23.

Manufacturing Chemists Association, joint meeting with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 23-25.

Metal Powder Association, annual meeting, in conjunction with Metal Powder Show, Drake hotel, Chicago, April 29-30.

National Agricultural Chemicals Association, spring meeting, Fairmont hotel, San Francisco, Calif., April 7-9.

National Air Pollution Symposium, Huntington hotel, Pasadena, Calif., May 5-6.

National Association of Chain Drug Stores, annual convention, Hollywood Beach hotel, Hollywood, Fla., April 15-18.

National Association of Purchasing Agents, annual convention, Convention Hall, Atlantic City, N. J., May 26-28.

National Cottonseed Products Association, annual convention, Roosevelt hotel, New Orleans, La., May 19-21.

National Fertilizer Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 16-18.

National Foreign Trade Council, Waldorf-Astoria hotel, New York, November 11-19.

National Lime Association, annual convention, Homestead, Hot Springs, Va., May 8-10.

National Packaging Exposition, Atlantic City Auditorium, Atlantic City, N. J., April 1-4.

National Paint, Varnish and Lacquer Association, annual convention, Palmer House, Chicago, November 17-19.

National Pest Control Association, annual meeting, Rice hotel, Houston, Tex., October 20-22.

National Petroleum Association, semi-annual meting, Cleveland hotel, Cleveland, Ohio, April 16-18; annual meeting, Traymore hotel, Atlantic City, N. J., September 10-12.

National Vitamin Foundation, annual meeting, Waldorf-Astoria hotel, New York, April 3.

Packaging Machinery Manufacturers Institute semi-annual meeting, Dennis hotel, Atlantic City, N. J., March 30-31.

Proprietary Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., May 22-24.

Society of Cosmetic Chemists, semi-annual meeting, Biltmore hotel, New York, May 15; semi-annual meeting, Biltmore hotel, New York, December 11.

Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York April 16; joint meeting with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 23-25.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 12-14.

Forest Products Group Outlines Parley Agenda

Forest Products Research Society has outlined program plans for its annual meeting, to be held June 23 to 25 at the Schroeder hotel, Milwaukee, Wis. Of particular interest to the chemical industry will be a fiberboard and chemical utilization session on the afternoon of June 23 and a general session on the afternoon of the twenty-fifth.

I. A. Hobbs and W. D. Sandberg, of the Tennessee Valley Authority, Wilson Dam, Ala., will lead off the program on the twenty-third with a discussion of "Utilization of Wood Waste by Hydrolysis with Dilute Sulphuric Acid." J. F. Saeman, Forest Products Laboratory, Madison, Wis., will talk on the "Status of Research in the Chemical Utilization of Wood Waste." "Organization of the National Task Committee on Industrial Wastes" will be the topic of L. F. Warrick, chief of the technical services branch, division of water pollution control, Public Health Service.

Pulping Processes Pollution

Harry W. Gehm, technical adviser of the National Council for Stream Improvement, will describe "Pollution from Pulping Processes." J. D. Cochrane, jr., director of research and development, Formica Company, Cincinnati, Ohio, will discuss "Wood Waste Core Materials for High Pressure Laminates." A. J. O'Neill and Albert G. H. Dietz, Massachusetts Institute of Technology, Cambridge, Mass., will present a paper entitled, "Investigation of Physical and Mechanical Properties of Wood Waste Board." At the conclusion of the technical session, a film will be shown by the Novoply division of the N. S. Plywood Corporation.

Leading off the general session on June 25 will be George Kitazawa, research associate, department of wood technology, State University of New York College of Forestry, Syracuse, N. Y., who will outline "Young's Modulus of Elasticity of Small Wood Beams by Dynamic Measurements." "Chemical Brown Stain in Sugar Pine" is title of a paper to be presented by Merrill A. Millett, Forest Products Laboratory. L. E. Wise, Ruth C. Rittenhouse, O. H. Olson, E. E. Dickey, and Consuelo Garcia, Institute of Paper Chemistry, will describe "Chemical Studies of Certain Tropical Woods." Ralph M. Lindgren and George M. Harvey, Forest Products Laboratory, will talk on "Decay Control and Increased Permeability in Southern Pine Sprayed with Fluoride Solutions."

Forest Utilization Problems

L. A. Mueller, chief of the Forest Utilization Service, Tucson, Ariz., will discuss "Forest Utilization Problems and Opportunities in the Southwest Region." H. P. Sedziak, Forest Products Laboratory, will present a paper entitled, "The Evaluation of Two Modern Wood Preservatives." E. G. Wiesehuegel, chief of the forestry investigations branch, division of forestry relations, TVA, Norris, Tenn., will speak on "Laminated Lumber from Low Grade Hardwoods by the Continuous Glue Press Process." "Immediate vs. Delayed Holding Power of Nails" will be the title of a talk by E. George Stern, professor at the Virginia Polytechnic Institute, Blacksburg, Va.

Nat'l Petroleum Ass'n Opens Cleveland Session April 16

The National Petroleum Association will hold its forty-ninth semi-annual meeting April 16 to 18 at the Cleveland hotel, Cleveland, Ohio. A general session is slated for the afternoon of the seventeenth. Arthur S. Phelps, attorney with the petroleum section of the Office of Price Stabilization, will discuss "Your Duty to Price Stabilization." L. C. Kemp, jr., director of research, Texas Company, will talk on "Synthetic Fuels from Coal and Oil Shale." Clarence Manion, dean of the Notre Dame Law School, will have as his topic, "The Key to Peace."

Group meetings will be held on the mornings of the seventeenth and the eighteenth. The traffic and transportation department and the industrial relations department of the association will meet on April 17, while a session on manufacture and standards and tests will be held April 18.

The association's annual meeting is scheduled for September 10 to 12 at the Traymore hotel, Atlantic City, N. J.

Cosmetic Meeting Date Reset

The Society of Cosmetic Chemists has changed the date of its December meeting from the fourth to the eleventh. Site of the gathering, the Biltmore hotel, New York, remains unchanged.

Priestley Medal Goes To Dr. Samuel Lind

Dr. Samuel C. Lind, of the Oak Ridge National Laboratory, Oak Ridge, Tenn., internationally-known for his research on radium and radioactivity, has been awarded the 1952 Priestly medal for "outstanding services to chemistry," it was announced last week at the American Chemical Society's 121st national meeting in Buffalo, N. Y. Presentation of the award will take place at the society's fall meeting in Atlantic City, N. J.

A former president of the society and dean emeritus of the University of Minnesota Institute of Technology, Dr. Lind is at Oak Ridge as a research consultant on the staff of Clark E. Center, general manager for the Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbide Company, which operates the laboratory and two atomic energy production plants there. Dr. Lind is acting director of the laboratory's chemistry division and also is a director of the Oak Ridge Institute of Nuclear Studies.

ICC to Restrict Crystalline Metallic Calcium Shipments

Crystalline metallic calcium is proposed to be added by the Interstate Commerce Commission to its list of explosive and other dangerous articles whose movement by rail express is restricted for reasons of safety. The material is classed as a flammable solid requiring a yellow label, and not more than twenty-five pounds may be shipped in a single container by rail express.

In a notice of proposed changes in the rules and regulations covering the transportation of explosives and other dangerous articles published in the *Federal Register* March 27, the commission also proposes to add several other chemical products to the restricted list and make certain changes in the requirements for the packaging and handling of other items.

Added to the list are liquid methyl parathion and mixtures of methyl parathion in liquid form and vinyl trichlorosilane. The parathions are classed as poison "B" substances which must be labeled "Poison" and limited to single shipments of one quart. The vinyl trichlorosilane is a flammable liquid, requiring a red label and limited to single shipments of ten gallons.

Fragrance Foundation To Convene April 24

The third annual meeting of the Fragrance Foundation will be held April 24 at the Pierre hotel, New York. Starting with a reception at 12 noon, the meeting will consist of luncheon and an afternoon program. All members of the fragrance industry are invited.

Samuel Rubin, president of the foundation and president of Faberge Perfumes, will give an annual report, followed by reports of Frazer Sinclair, treasurer of the organization and publisher of *Beauty Fashion*, and Miriam Gibson French, executive director. There will be two guest speakers, one a public relations expert from another industry who will appraise the foundation's activities and the other a psychological marketing analyst who will outline a proposed additional activity for the foundation. The balance of the program will be a closed meeting session for active and associate members of the foundation only.

National Lime Association 50th Convention May 8-10

The National Lime Association will hold its fiftieth annual convention May 8 to 10 at the Homestead, Hot Springs, Va. As has been the association's policy for the past six years, the meeting will be closed to other than representatives of member lime manufacturers and invited guests.

Petroleum World Congress Slated for Rome in 1955

The permanent council of the World Petroleum Congress, at its recent meeting in Paris, France, selected Rome, Italy, as the site for its 1955 conclave. The congress is due to open in the last week of May and finish in the first week of June.

Histochemical Society Convention April 7-8

The Histochemical Society will hold its third annual meeting April 7 and 8 at the New Yorker hotel, New York. Papers to be presented the morning of the seventh are the following:—

"Demonstration of Protein-Bound Sulph-Hydral and Disulphide Groups by Two New Histochemical Methods," Russell J. Barrnett and Arnold M. Seligman, Harvard Medical School, Boston.

"A New Tryptophane Histochemical Method," M. Joseph Carber, Huang Mei Hseih and Lloyd E. Thomas University of Missouri, Columbia, Mo.

"Some Studies on the Schultz Histochemical Test for Cholesterol," Charles B. Reimer, University of Chicago.

"Observations on the Specificity of the Schultz Histochemical Test for Demonstrating Cholesterol in Tissue," Sidney P. Kent, University of Alabama, Birmingham, Ala.

"A Modification of the Sudan Black B. Technic for the Possible Cytochemical Demonstration of Masked Lipids," G. Adolph Ackerman, Ohio State University, Columbus, Ohio.

"On Fat Peroxides in Human Polymorphonuclear Leucocyte Granules" R. D. Lillie and Helem Jacquier Burtner, National Institutes of Health, Bethesda, Md.

"Histochemical Demonstration of Ketosteroids in Normal, Abnormal and Neoplastic Placentae," Rivka Ashbel and Arthur T. Hertig, Harvard Medical School.

"The Histochemistry of Lipid Carbonyl Compounds," G. Gomori, University of Chicago.

"Apparent Identity of Pigmented Lipoid in Cells in Adrenal Gland and Interstitium of Testis of Mice Following Administration of Stilbestrol," Harlan I. Firminger, University of Kansas Medical School, Kansas City, Kan.

Election of Officers

The afternoon on the seventh will begin with a business meeting of the society and election of officers. Papers scheduled for that session are the following:—

"A New Histochemical Reaction for Polysaccharides," Roberto E. Mancini and M. A. Etcheverry, Instituto Nacional de Nedocrinologia, Buenos Aires Argentina.

"Lead Tetra-Acetate Oxidation of 1.2 Glycols in Histochemistry" R. H. Jordan and J. F. A. McManus, University of Virginia, Charlottesville, Va.

"The Use of Lead Tetra-Acetate to Investigate the Significance of the Periodic Acid Fuchsin Sulphurous Acid Reaction," R. E. Glegg, Yves Clermont and C. P. Leblond, McGill University, Montreal, Quebec.

"Histochemical Methods for Water-Soluble, Alcohol-Insoluble Polysaccharides and Other Substances Oxidized to Aldehydes by Periodic Acid," R. W. Mowry, National Institutes of Health.

"Vapor Fixation of Frozen Sections for the Preservation of the Mucoid Ground Substance of Wharton's Jelly," George F. Odland and Elizabeth H. Leduc, Harvard Medical School.

"Fuchsin-Aldehyde Staining of Sulphated Mucopolysaccharides and Related Substances," S. K. Abul-Haj and James F. Rinehart, University of California School of Medicine, San Francisco, Calif.

"The Staining of Mucopolysaccharides, with Special Reference to those of Cock's Comb," James B. Longley, National Institutes of Health.

"Reduction in Metachromasia of Cartilage as an Indicator of Chondroitinase Activity," Earl P. Benditt and John E. French, University of Chicago.

Analytical Cytology Talk Slated

Leading off the morning program on April 8 will be a discussion of "Instrumentation for Analytical Cytology" by Robert C. Mellors, Sloan-Kettering Institute, New York. Other papers to be presented are the following:—

"Autoradiographic and Staining Observations on the Use of Carbowax as an Embedding Medium for Frozen Dried Tissues," Margaret

—*Continued on page 55*

Employment Rules Change Proposed Affecting Minors

Notice has been given by Secretary of Labor Maurice Tobin of intentions to modify the regulations relating to employment of minors in occupations in or about plants manufacturing explosives or articles containing explosive components.

In one amendment it is proposed to extend the prohibition against employment of minors in the occupations in or about establishments where explosives, other than small-arms ammunition, are stored. In another amendment it is proposed to allow the employment of sixteen and seventeen year olds in occupations now prohibited when such occupations do not involve the handling or use of explosives.

The proposed changes were published in the *Federal Register* March 20 and interested persons were invited to submit their comments in writing to the secretary within thirty days.

NCPA Forgathers May 19

The National Cottonseed Products Association will hold its fifty-sixth annual convention May 19 to 21 at the Roosevelt hotel, New Orleans, La.

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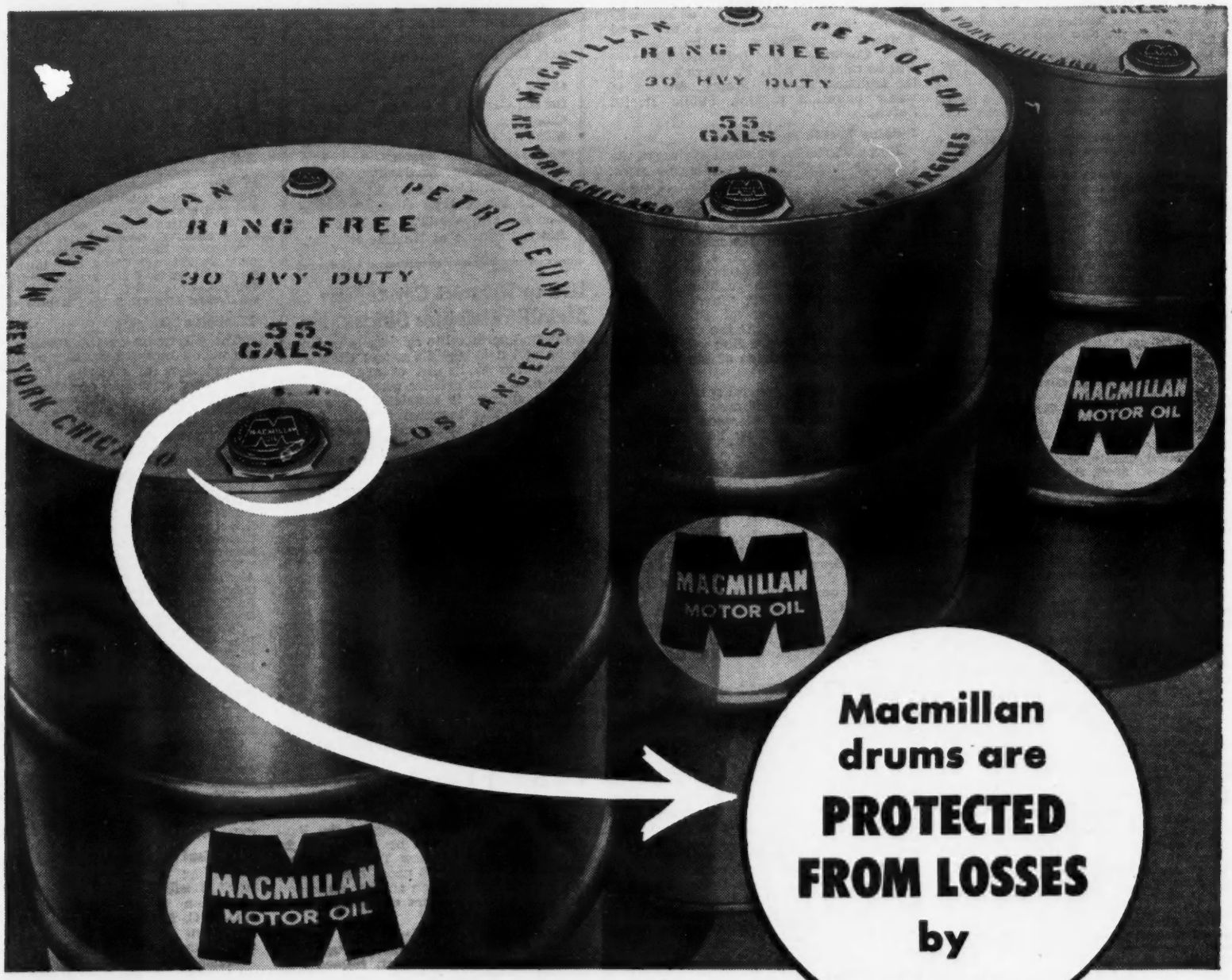

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Current Market Quotations

Chemicals and Related Materials

All matters under this heading fully protected by copyright.

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, March 28 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
over 92.5 C., m.p. dms.. works lb. .50 - —

Acetaldehyde, 99%, dms.. c.l., frt. equald. lb. .1250- .1435
l.c.l., frt. equald ..... lb. .1350- .1535
tanks, frt. equald ..... lb. .1050- .1300

Acetaldol (see Aldol).

Acetanilide tech., bbls. c.l., dlvd. lb. .25½ .26½
l.c.l., ton lots ..... lb. .26½ .27½
smaller lots ..... lb. .29½ .30½
USP, bbls., 2,000-lb. lots ..... lb. .61 - —
smaller lots ..... lb. .62 - .67

Acetic anhydride, dms., c.l., frt. alld. E lb. .16 —
l.c.l., frt. alld. E ..... lb. .17½- —
tanks, frt. alld. E ..... lb. .14½- —

Acetoacetanilide, fib. dms., c.l. dlvd. lb. .73 - —
l.c.l., dlvd ..... lb. .74 - —

Acetoacetorthochloroanilide, fib. dms., c.l., dlvd. lb. 1.14 - 1.22
l.c.l., dlvd ..... lb. 1.15 - 1.23

Acetoacetorthotoluidide, fib. dms., c.l., dlvd. lb. .78 - —
l.c.l., dlvd ..... lb. .79 - —

Acetone, CP dms., c.l., dlvd... lb. .10¼- .11¾
l.c.l., dlvd ..... lb. .11 - .12½
tanks, dlvd ..... lb. .08½- .10

Methyl (see M)

Acetonitrile, dms., c.l. works... lb. .45 - —
l.c.l., works ..... lb. .47 - —

Acetophenetidin USP, bbls., works, frt equald lb. 1.15 1.38

Acetophenone, cns. dms ..... lb. 1.35 1.65
tech., dms., l.c.l., works ..... lb. .75 —

Acetyltributyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l. ..... lb. .38½- —
tanks ..... lb. .36 - —

Acetyltriethyl citrate tech., dms., c.l. lb. .37½- —
l.c.l. ..... lb. .38½- —
tanks ..... lb. .36 - —

Acid, abietic, com'l, dms., c.l., works lb. .12 - —
l.c.l., works ..... lb. .1390- —
cryst., dms., c.l., works ..... lb. .06½- —
l.c.l., works ..... lb. .07 - .07½

Acetic, com'l or redist., 28%, bbls 100 lbs. 5.50 - —
56%, bbls ..... 100 lbs. 9.65 - —
70%, bbls ..... 100 lbs.11.70 - —
80%, bbls ..... 100 lbs.12.45 - —
glacial, synthetic, CP, dms., works 100 lbs.15.50 -16.00
cbys., inclusive, works 100 lbs.24.00 -25.00
tech., dms., c.l., works 100 lbs.10.50 -12.50
l.c.l., bbls., works 100 lbs.11.00 -13.50
tanks, works ..... 100 lbs. 9.00 -11.50
USP, dms. works ..... 100 lbs.13.50 -14.50

Acetic anhydride (see Acetic anhydride above)

Acetylsalicylic USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .60 - —
standard, fine cryst., gran., (30-40 mesh) powd. (80 mesh), bbls same basis, lb. .55 - —

Freight equald, ship't identical quantity over standard routes from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works ..... lb. .30½- —
Aminoacetic NF, bbls., frt. adjusted lb 1.50 - 1.75
Anthranilic, resub., bbls ..... lb. 2.10 - —
tech., bbls., frt. equald ..... lb. 1.10 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic, USP dms. 25-50 kilo lots kilo.24.50 - —
10-kilo lots ..... kilo.24.85 - —
5-kilo lots ..... kilo.25.25 - —
bots., kilo, lots ..... kilo.25.50 - —
500-gram lots ..... kilo 26 00 - —
Battery, cbys., c.l., works, E. 100 lbs 2.40 —
l.c.l., works, E ..... 100 lbs. 2.80 - 3.20
Benzoic, tech. bbls. dms., 100 lbs. or more lb. .425 - .450
USP, bbls., dms., 100-lb. lots or more lb. .525 - .540

Betahydroxynaphthoic (see betaoxynaphthoic acid).

Betaoxynaphthoic, bbls., works lb. 1.33 - 1.39

Boric, tech. 99½% cryst., bgs., c.l., works ..... ton.120 75 - —
ton lots, ex whse., N. Y. or Chi ton.166.50 - —
less ton lots same basis, ton.171.50 - —
bbls., c.l., works ..... ton.145 25 - —
ton lots, ex whse., N. Y. or Chi ton.191.00 - —
less ton lots same basis, ton.196.00 - —
bulk, c.l., works ..... ton.116.75 - —
gran., bgs., c.l. works ton.95 75 - —
ton lots, ex whse., N. Y. or Chi ton.141 50 - —
less ton lots, same basis, ton.146.50 - —
bbls., c.l., works ..... ton.120 25 - —
ton lots, ex whse., N. Y. or Chi ton.166 00 - —
less ton lots, same basis, ton.171.00 - —
bulk c.l., works ..... ton.91.75 - —
powd., bgs., c.l works ton.100 75 - —
ton lots, ex whse., N. Y. or Chi ton.146.50 - —
less ton lots same basis, ton.151.50 - —
bbls., c.l., works ..... ton.125.25 - —
ton lots, ex whse., N. Y. or Chi ton.171.00 - —
less ton lots same basis, ton.176.00 - —
bulk c.l works ..... ton.96.75 - —
USP $25 per ton higher.
Broenner's, bbls ..... lb. 1.47 - —

Acid, butyric, 99% dms., c.l., works, lb. .38 - —
l.c.l., works ..... lb. .38½- —
tankcars, works ..... lb. .36½- —
Cacodylic, bots ..... lb.10.50 -13.00
Camphoric, natural, dms ..... lb 4.00 4.75
synth., dms ..... lb 4.00 4.75
Capric, 90%, dms. l.c.l ..... lb. .35½- —
Caprylic, 90%, dms. l.c.l ..... lb. .35½- —
Cassello, dms. frt alld ..... lb 1.44 —
Castor oil, split, dms ..... lb .33¼- .33¾
Chicago, bbls., frt alld ..... lb 3.21 —
Chlorosulphonic, dms., c.l., frt. equald lb. .039 —
l.c.l., frt. equald ..... lb. .044 .059
tanks, frt. equald ..... lb. .034 —
Chromic, 99½-99¾% dms., c.l. works lb. .28 - —
l.c.l., works ..... lb. .28½- .29½
NF (see Chromium trioxide)
Cinnamic, refd., bots ..... lb. 2.50 - 3.50
Citric, anhyd., gran. fine gran., dms., c.l. lb. .26½- —
10,000-lb. lots, 1 ship't. lb. .27 - —
smaller lots ..... lb. .27½- —
kgs. ..... lb. .28½- —
Anhydrous citric acid powder ½c. per lb. higher.

USP cryst., dms. c.l. lb. .27½- —
10,000-lb. lots, 1 ship't. lb. .28 - —
smaller lots ..... lb. .28½- —
kgs. ..... lb. .29½- —
gran., fine gran. dms., c.l lb. .24½- —
10,000-lb. lots, 1 ship't. lb. .25 - —
smaller lots ..... lb. .25½- —
kgs. ..... lb. .26½- —
USP citric acid powder ½c. per lb higher
Cleve's, mixed, bls ..... lb. .79 —
Coconut oil, dist., dms ..... lb. .17 - .18¼
double dist., dms ..... lb. .18½- .19¾
Cottonseed oil, dist., dms ..... lb. .1050- .1175
double dist., dms ..... lb. .1100- .1225
Cresylic coaltar, dom. 50% above 207°C, non-ret. dms., c.l. frt equald gal. 1.31 - 1.36
l.c.l., same basis gal. 1.34 - 1.49
ret. dms., c.l., same basis gal. 1.28 - —
l.c.l., same basis gal. 1.33 - —
tanks, same basis ..... gal. 1.20 - 1.25
204° to 207° C non-ret. dms., c.l., same basis ..... gal. 1.36 - —
l.c.l., same basis gal. 1.39 - —
ret. dms., c.l. same basis, gal. 1.33 - —
l.c.l., same basis .. gal. 1.38 - —
tanks, same basis .. gal. 1.25 - —
Imp., 75% at 215°C. or over, dms., ex whse. gal. 1.20 - 1.30
petroleum, dom. 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis. gal. .73 - .75
tanks, same basis... gal. .58 - —

Acid, cresylic, petroleum, dom., 200° C to 222° C, tanks, Wilmington, Cal gal. .58 - .63
211° C to 236° C, non-ret, dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis .. gal. .65 - .67
tanks, same basis ..... gal. .50 —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 - .53
245° C to 298° C, tanks, Wilmington, Cal gal. .46 - —
Crotonic, fib dms., works .... lb. .31 - —
Cyanoacetic, tech., bbls ..... lb .90 1.25
Desoxycholic, bots ..... lb 22.00 25.00
Dichlorophenoxyacetic (see under "D" 2,4-D).
Diethylbarbituric (see Parbital).
Diglycolic, bgs., works ..... lb. .14 - —
Ethylhexoic, dms., c.l., works lb. .35 - —
l.c.l., works ..... lb. .35½ —
tanks, works ..... lb. .33½- —
F, crude, paste, bbls., works lb 1.07 —
Folic, bots., fib. cns., kilo or more gram. 1.60 - —
Formic, 85%, cbys., c.l., works lb. .142 .17
l.c.l., works ..... lb. .14½ .22
90%, cbys., c.l., works .... lb. .1475- .1750
l.c.l., works ..... lb. .15 - .23½
Fumaric, tech. bbls. dms .... lb. .37 .38
Gallic, NF, VII, bbls., 1,000-lb. lots, lb 1.80 —
smaller lots ..... lb. 1.82 2.00
technical, bbls., 1,000-lb. lots lb 1.58 —
smaller lots ..... lb. 1.69 - 1.78
Gamma, dry ground, bbls., frt. alld lb 1.50 —
paste, bbls., frt. alld ..... lb 1.45 —
Gentisic, 100-lb. fib dms .... lb 8.50 —
Gluconic, tech., 50%, bots .... lb. .23½ .31½
dms. ..... lb. .14½ —
cbys. ..... lb. .17½ —
Glumatic, 99½%, laevo, fib. dms., 100-lb. lots, works lb 2.45 2.53
25-lb. lots, works ..... lb. 2.60 - 2.68
Glycerophosphoric, 35%, dms., works lb 2.25 2.35
Glycolic (see Acid hydroxyacetic).
H, 100% basis, bbls., works .. lb. .82 - —
Hydriodic, 1.50 s.g., cbys ..... lb 2.67 —
1.70 s.g., cbys ..... lb 2.98 —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .37 - .43
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works ..... lb. 1.15 - —
dilute, NF, 2%, 5-lb. bots lb. .40 —
Hydrofluoric, anhyd., cyls., works. lb. .24 .25
tanks, works ..... lb. .18 - —
70%, steel dms., works .... lb. .1535- .1955
Hydrofluosilicic, 30-35%, bbls., works lb .07 - —
Hydroxyacetic, tech., 70%, bbls., non-return., Phila., basis 100% lb. .12 - —
tanks, Belle, W. Va., basis 100% lb. .085 - —

Acid, hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb .88 —
J, bbls., works, 100% basis lb. 2.50 2.85
Koch, bbls. frt. alld ..... lb .64 .70
L, bbls frt alld ..... lb 1.25 —
Lactic edible 50% bbls., 20 or more lb. .17 .20
smaller lots ..... lb. .17½ .21
80%, bbls., 5 bbls or more lb. .30 .3640
less than 5 bbls ..... lb. .305 .3690
plastic grade, 50% bbls., 20 or more, works lb. .21¾ —
1 to 19 ..... lb. .22¼ 22¾
80%, bbls., 5 or more .... lb. .3815- —
tech., 22%, bbls., c.l., works, 100 lbs. 6.30 —
l.c.l., works .... 100 lbs. 6.70 - —
cbys., works .... 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs.11.45 11.95
l.c.l., works ..... 100 lbs.11.85 -12.50
NF, 85% cbys ..... lb .85 .88
Laurent's, bbls ..... lb .60 .87
Lauric, 90-95%, dms ..... lb. .24¾- .25¼
60%, dms ..... lb .18¾ 19½
Linseed oil, dist., reg., dms .. lb. .2120- .2170
water-white, dms ..... lb. .2420- .2470
Maleic, anhydride (see M).
powder, dms ..... lb .37 .38
Malic, dms ..... lb .50 —
Mandelic, NF, dms. 1,000-lb lots lb 2.35 —
smaller lots ..... lb 2.40 2.50
Metanilic dms works ..... lb. .57 —
Methacrylic, dms., c.l., and truck loads, works lb. .76 —
less than truckload, works lb 76½ 80
Molybdic, dms 85-92% works lb. 1.40 1.55
Monochloroacetic, purified, flake, 99%, dms lb. .23¾ 24¾
tech., flake 96-97%, dms lb. .20¼ .21¼
Muriatic, 18° cbys., c.l., works, 100 lbs. 2.45 2.80
l.c.l., dlvd. Met. area 100 lbs. 2.75 - 3.60
tanks, works ..... con.2.00 -29.00
20°, cbys., c.l., works 100 lbs. 2.70 3.05
l.c.l., dlvd. Met. area 100 lbs. 3.00 - 3.80
tanks, works ..... con.27.00 -33.00
22°, cbys., c.l., works 100 lbs. 3.30 3.40
l.c.l., dlvd. Met. area 100 lbs. 3.50 - 4.30
tanks, works ..... ton.32.00 -36.00
CP, USP consumers, cbys., extra c.l., works lb. .11¾ —
l.c.l., same basis lb. .13¼ 13¾
5 pint bottles extra, cs., c.l., same basis lb. .16¾ —
l.c.l., same basis ..... lb. .19¼- —
Acid, muriatic, CP, USP, prices to dealers, 1½c. per lb. less.
Myristic, dms ..... lb. .24¾- .25¼
Naphthenic 220-230 acidity, dms., works lb. .14 —
tanks, works ..... lb. .12 —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winthers)
Naphthol(1)-5-sulphonic (see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(2)-7-Sulphonic,2-amino (see Acid, J)
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)
(2)-6-sulphonic (see Acid, Broenner's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. 1.03 —
Nicotinic, USP, dms., frt. adjusted lb. 9.00 9.30
Nicotinicamide (see Nicotinamide).
Nitric 36° cbys., c.l., works E. 100 lbs. 5.00 —
l.c.l., works E ..... 100 lbs. 5.30 -11.10
38° cbys., c.l., works E 100 lbs. 5.50 - —
l.c.l., works E ..... 100 lbs. 5.80 -11.60
40° cbys., c.l., works E 100 lbs. 6.00 - 6.50
l.c.l., works E ..... 100 lbs. 6.30 -12.10
42° cbys., c.l., works E 100 lbs. 6.50 - 7.00
l.c.l., works E ..... 100 lbs. 6.80 -12.60
60% HNO_3, tanks, works 100% 100 lbs. 3.25 - —
95% HNO_3, tanks, works, bulk 100% 100 lbs. 4.25 - —
CP, NF consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 .15½
5 pint bottles extra, cs., c.l., same basis lb. .17½ —
l.c.l., same basis ..... lb. .19 - .25
Octoic (see Acid, Ethylhexoic).
Oleic, single distilled, dms lb. .12¼- .13½
tanks ..... lb. .10¾- —
double distilled (white), dms lb. .14¾- .16
tanks ..... lb. .13¼- —
Oleum (see Acid sulphuric, fuming)
Orthochlorobenzoic, fib. dms., works lb. 1.13 - —
Orthocresotinic, dms., ton lots, works lb. .66 —
smaller lots, works ..... lb. .68 —
Oxalic, bbls., c.l., works ..... lb. .1575- .1590
10,000 lbs., works ..... lb. .16 .1615
smaller lots, works ..... lb. .17 .1715
Palm oil, white, dist., dms lb. .16¼ 17
Para-aminobenzoic, tech., dms lb. 1.74 1.77
USP, dms., 1,000-lb. lots or more, works lb. 3.60 - —
smaller lots ..... lb. 3.70 - 4.00
Para-aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.45 —
smaller lots, same basis lb. 4.50 4.95
Parachlorobenzoic, fib dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 —
Paratoluidinmetasulphonic, bbls., works lb .92 1.04
Phenylacetic, bots lb. 1.45 1.75
tech., dms., 1,000-lb. lots lb .90 - —
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formularly
alld.	allowed	dist.	distilled	nom.	nominal
ammo.	ammonia	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	ord.	ordinary
AMP.	American melting point	dlvd.	delivered	oz	ounce
		dms.	drums	Pac.	Pacific
anhyd.	anhydrous	dom.	domestic	pf.	proof
a.p.a.	available phosphoric acid	E.	east	phos.	phosphate
		e.p.	end point	photo.	photographic
artif.	artificial	equald.	equalized	pkgs.	packages
ASTM.	American Society for Testing Materials	F	fahrenheit	powd.	powdered
		ferment.	fermentation	precip.	precipitated
Be.	Baume	ffa.	free fatty acid	prod.	producer
bgs.	bags	ffc.	free from chlorine	pt.	point
bbls.	barrels	fib.	fiber	pulv.	pulverized
bls.	bales	f.o.b.	free on board	purif.	purified
bots.	bottles	FPA.	free of prussic acid	redist.	redistilled
b.p.	boiling point			refd.	refined
b.p.l.	bone phosphate of lime	frt.	freight	refy.	refinery
		fus.	fused	reg.	regular
b.r.	boiling range	gal.	gallon	resub.	resublimed
bxs.	boxes	gran.	granular	ret.	returnable
C.	centigrade	grd.	ground	SD.	specially denatured
cbys.	carboys	i.&a.	iron and aluminum	s.d	single distilled
CD.	completely denatured	i.b.p.	initial boiling point	S. E.	southeast
		imp.	imported	secs.	seconds
c.i.f.	cost insurance, freight	incl.	included	s.g.	specific gravity
		indust.	industrial	ship't.	shipment
cks.	casks	kgs.	kegs	solut.	solution
c.l.	car lots	lacq.	lacquer	s.u	standard unit
cns.	cans	lb.	pound	synth.	synthetic
col.	color	l.c.l.	less than car lots	tanks.	railroad tank-cars
com'l	commercial	liq.	liquid	tech.	technical
conc.	concentrated	m.a.p.	mixed anilin point	USP.	U. S. Pharmacopoeia
CP.	chemically pure	M c.f.	thousand cubic feet	vis.	viscosity
cps.	centipoises			VM&P	varnish makers & painters
cryst.	crystal	min.	minimum		
cs.	cases	m.p.	melting point	W	west
ctns.	cartons	N.	nitrogen	whse.	warehouse
cyls.	cylinders	nat.	natural	w w.	water white
dbl.	double				
denat.	denatured				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Phosphoric—Aldrin

Acid, phosphoric, food grade, 75%, cbys., c.l. works	100 lbs.	7.00	7.10
l.c.l., works, frt alld.	100 lbs.	7.50	8.00
tanks, works	100 lbs	4.90	5.00
NF, 85%, cbys., c.l. works	lb.	.08	.08¼
l.c.l., works	lb.	.08½	.09¼
Picric, NF 300-lb. bbls	lb.	.55	—
small dms	lb.	.81	.87
tech., bbls	lb	.32	.33
Propionic, synthetic pure, dms., c.l., works	lb.	.258	—
l.c.l., works	lb.	.263	—
tanks, works	lb.	.19	.243
Pyrogallic, NF, (see Pyrogallol)			
tech., bbls	lb	2.76	2.99
Pyroligneous, dms. incl., l.c.l. works	gal.	.26	—
whse.	gal.	.504	—
Ricinoleic (see Acid castor oil, split)			
S, bbls., works	lb	3.25	—
Salicylic, crude, bgs	lb.	.35	—
sublimed, tech., bbls., c.l.	lb	.37	—
l.c.l.	lb.	.44	—
dyestuffs grade, bbls	lb.	.39	—
USP, cryst., bbls	lb.	.46	—
powder, bbls	lb.	.51	—
Sebacic, purified, dms., c.l., works	lb.	.93¾	.94
l.c.l., works	lb.	.92¾	.94½
Soybean oil, double dist., dms.	lb.	.12¼	.13½
single dist., dms	lb.	.11¾	.13
Stearic, double pressed, bgs	lb.	.11	.12¼
single-pressed, bgs	lb.	.10½	.11¾
triple-pressed, bgs	lb.	.13¼	.14½
Succinic, purified, cryst., bbls., works	lb.	.63	.75
Acid, sulphanilic, tech., dms., c.l., frt. alld	lb.	.18	—
l.c.l., frt. alld	lb.	.20	—
Sulphuric, 60° Be, cbys., c.l., works	100 lbs.	1.75	—
l.c.l., works	100 lbs.	2.05	2.85
tanks, works	ton.	16.30	—
66° Be, cbys., c.l. works	100 lbs.	2.00	2.10
l.c.l., works	100 lbs.	2.30	3.10
tanks, works	ton.	20.00	—
96-100%, tanks, works	ton.	21.00	—
CP, NF, consumers, cbys., extra, c.l., works, frt. equald.	lb.	.09¾	—
l.c.l., same basis	lb.	.11¼	.11¾
5 pt. bottles, extra, cs., c.l., works, frt. equald	lb.	.13¼	—
l.c.l., same basis	lb	.14¾	.20¾
fuming, 20%, tanks, works	ton.	22.40	—
Tallow, dist., dms	lb.	.09¼	.10½
hydrogenated, dms	lb.	.10½	.11¾
Tannic, NF USP XIII, fluffy, bbls., 1,000-lb. lots	lb	1.59	1.60
smaller lots	lb	1.65	1.76
powder, bbls., 1,000-lb. lots	lb	1.50	—
smaller lots	lb	1.51	1.69
tech., dms	lb.	.95	—
Tartaric, USP, dom., 230, 250-lb. dms., 10,000-lb. lots, 1 ship't	lb.	.45½	—
smaller lots	lb.	.46	—
100-lb dms	lb.	.47	—
small dms	lb.	.49	.55
imported, bgs	lb.	.36	.40
Thioglycolic, refined, bgs., cbys., basis 100%	lb	1.60	1.86
Tobias, bbls., frt. alld	lb.	.74	—
Toluenesulphonic, d m s., works	lb.	.18½	—
l.c.l., works	lb.	.20	—
tanks, works	lb.	.17	—
Acid, Trichloracetic, bots	lb.	2.00	2.50
Trichlorophenoxyacetic (see under T.2,4,5-T).			
Tungstic, tech., kgs., works	lb.	4.30	—
Undecylenic, dms.	lb.	1.40	—
Aconite leaves, bls	lb.	.25	.35
Root, bls	lb.	.55	.60
Aconitine, amorph., mild, bots	oz.	27.50	32.50
cryst., potent, bots	oz.	78.00	85.00
Acrolein, dms., works	lb.	.50	—
Acrylonitrile, dms., c.l., works	lb.	.44½	—
l.c.l., works	lb.	.45	.47
tanks, works	lb.	.43	—
ACTH, bots	gm.	40.00	—
Adeps lanae (See Lanolin).			
Adonis vernalis herb, bls	lb.	.22	.24
Adrenocorticotropic hormone—see ACTH			
Agar, USP, Kobe No. 1 strip, bls.	lb	1.25	1.50
powdered, 30 mesh, fib. dms	lb	1.60	1.85
Agaric, white, bls	lb.	2.25	Nom.
Agrimony herb, bls	lb.	.25	.30
Alanine dextro-laevo, dms., works	lb.	8.50	11.00
Albumen (egg) edible, flake, bbls.,	lb.	1.41	1.43
powd., bbls	lb.	1.45	1.47
tech., cryst., bbls	lb.	1.00	1.08
Albumin, blood, dark (see Blood, dried, soluble),			
light, dms., l.c.l.	lb.	.70	.80
Egg (see Albumen).			
Alcohol, allyl, dms., c.l., dlvd	lb	.31¾	—
l.c.l., dlvd	lb	.32½	—
tanks, dlvd.	lb.	.30	—
Amyl ex fusel oil (see Fusel oil, ref.)			
ex pentane, dms., c.l., frt. alld. E. Miss	lb.	.21	—
l.c.l., frt. alld. E of Miss	lb.	.22	—
tanks, frt. alld. E. of Miss	lb.	.19	—
Alcohol, amyl, fermentation, refined, 126-132° C, dms., c.l., dlvd.	lb.	.33¾	—
l.c.l., dlvd	lb.	.34¾	—
tanks, dlvd	lb.	.32	—
128-132° C., dms., l.c.l., dlvd.	lb.	.36½	—
ACS grade, dms., l.c.l., dlvd	lb.	.38½	—
Benzyl, NF, dms	lb.	.64	.80
tech., dms., dlvd	lb.	.47½	.49
Butyl, fermentation, normal, dms., c.l., frt. alld.	lb.	.17¾	.29¾
l.c.l., frt. alld	lb.	.18½	.30¾
tanks, frt. alld	lb.	.16	.28
synthetic, normal, dms., c.l., frt. alld	lb.	.17¾	—
l.c.l., frt. alld	lb.	.18½	—
tanks, frt. alld	lb.	.16	—
Secondary, dms., c.l., frt. alld.	lb.	.12¾	.14¾
l.c.l., frt. alld	lb.	.13½	.15¼
tanks, frt. alld	lb.	.11	.13
tertiary, dms., c.l., frt. alld.	lb.	.13¾	—
l.c.l., frt. alld	lb.	.14½	—
tanks, frt. alld	lb.	.12	—
Capryl, 85%, dms., c.l., works	lb.	.15	—
l.c.l., works	lb.	.15½	—
tanks, works	lb.	.13½	—
95%, dms., c.l., works	lb.	.16½	.20¼
l.c.l., works	lb.	.17	.22¾
tanks, works	lb.	.15	.20¼
Cetyl, extra, fib., cns., 500-lb. lots or more	lb.	1.32	—
smaller lots	lb.	1.37	—
NF, fib., cns., 140-lb. lots or more	lb.	.72	.95
smaller lots	lb.	.72	1.00
Cinnamic, bots	lb.	2.25	3.20
Decyl, bots	ib.	1.70	2.00
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Rockies	gal.	.87	—
l.c.l., dlvd., same basis	gal.	.91	.96
tanks, dlvd., same basis	gal.	.75	—
Tankcar sales require written authorization by Alcohol Tax Unit.			
Proprietary solvent, dms., c.l., dlvd. E. of Rockies	gal.	.69½	73
l.c.l., same basis	gal.	.73½	.97
tanks, same basis	gal.	.57½	76
Tankcar sales require written authorization by Alcohol Tax Unit.			
SD1, 190 pf., dms., c.l., dlvd. E. of Rockies	gal.	.88	—
l.c.l. same basis	gal.	.92	.97
tanks, same basis	gal.	.57½	76
SD2B, dms., c.l., dlvd. E. of Rockies	gal.	.88	—
l.c.l. same basis	gal.	.92	.97
tanks, same basis	gal.	.56	76
SD3A, dms., c.l., dlvd. E of Rockies	gal.	.86	—
l.c.l., same basis	gal.	.90	.95
tanks, same basis	gal.	.56	74
SD23A, dms., c.l., dlvd., E. of Rockies	gal.	.86½	.87
l.c.l., same basis	gal.	.90½	.96
tanks, same basis	gal.	.74½	75
SD23H, Dms., c.l., dlvd. E. Rockies	gal.	.87	—
l.c.l., same basis	gal.	91	96
tanks, same basis	gal.	.58	75
SD27A, dms., c.l., dlvd. E of Rockies	gal.	1.34½	1.48½
l.c.l., same basis	gal	1.38½	1.57½
tanks, same basis	gal	1.22½	1.36½
SD29, dms., c.l., dlvd E of Rockies	gal.	.82½	—
l.c.l., same basis	gal.	.92½	.97½
tanks, same basis	gal.	.76½	—
SD30, dms., c.l., dlvd. E of Rockies	gal.	.84½	—
l.c.l., same basis	gal.	.88½	.93¼
tanks, same basis	gal.	.72½	—
SD35A, dms., c.l., dlvd. E of Rockies	gal.	.89½	—
l.c.l., same basis	gal.	93½	.98½
tanks, same basis	gal.	.61½	77½
SD40, dms., c.l., dlvd. E. of Rockies	gal.	.88½	—
l.c.l., same basis	gal.	.92½	.97½
tanks, same basis	gal.	.58	.76½
Diacetone, acetone free, dms., c.l., dlvd	lb.	.13¾	—
l.c.l., dlvd	lb.	.14½	—
tanks, dlvd	lb.	.12	—
tech., dms., c.l., dlvd	lb.	.13¼	—
l.c.l., dlvd	lb.	.14	—
tanks, dlvd	lb.	.11½	—
Ethyl, 190 pf., USP tax paid, dms., c.l., dlvd. E. of Rockies	gal.	20.82	—
l.c.l., same basis	gal.	20.86	20.91
tanks, same basis	gal.	20.70	—
tax free, dms., c.l., dlvd. E. of Rockies	gal.	.87	—
l.c.l., same basis	gal.	.91	.96
tanks, same basis	gal.	.55	.75
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies.	gal.	21.94	—
l.c.l., same basis	gal.	21.98	22.03
tanks, same basis	gal.	21.82	—
Ethylbutyl, dms., c.l., works	lb.	.29¼	.29¼
l.c.l., works	lb.	.30	—
tanks, works	lb.	.28	—
Ethylhexyl, dms., c.l., dlvd. E	lb.	.30½	—
l.c.l. same basis	lb.	.31½	—
tanks, same basis	lb.	.29	—
Furfuryl, tech., cns., works	lb.	.31	—
dms., c.l., works	lb.	.22½	—
l.c.l., works	lb.	.24	—
tanks, works	lb.	.19½	—
Isoamyl (see Alcohol, amyl fermentation refined).			
Isobutyl, dms., c.l., dlvd	lb.	.17	.17½
l.c.l., works	lb.	.17¼	.18½
tanks, dlvd.	lb.	.15¼	.15½
Iso-octyl, dms. c.l., works	lb.	.29¼	—
l.c.l., works	lb.	.29¾	—
tanks, works	lb.	.26¼	—
Isopropyl refd., 91%, dms., incl., c.l., dlvd.	gal.	.5050	.5225
l.c.l., dlvd.	gal.	.5550	.5640
tanks, dlvd	gal.	.3850	—
95%, dms., incl., c.l., dlvd	gal.	.53	—
l.c.l., dlvd	gal.	.58	—
tanks dlvd	gal.	.41	—
99%, dms., incl., c.l., dlvd	gal.	.55	.56¾
l.c.l., dlvd	gal.	.60	.61
tanks, dlvd	gal.	.43	—
Lauryl, bots	lb.	2.00	2.50
Methyl (see Methanol).			
Methylamyl (see Carbinol, methyl-isobutyl)			
Octyl, perfumer's grade, bots	lb.	1.70	3.25
technical (see Octanol normal).			
Panthenyl (see Panthenol).			
Phenylethyl, dms	lb.	1.57	2.15
Polyvinyl, various grades, bgs., ton lots, works	lb.	.72½	76
smaller lots, works	lb.	.77½	.81
Propyl, normal, dms., c.l., dlvd.	lb.	.13	—
l.c.l., dlvd	lb	14	—
tanks, dlvd	lb.	.11	—
Salicyl (see Saligenin).			
Tetrahydrofurfuryl, cns., Waverly, N. Y.	lb.	49½	—
dms., Niagara Falls, N. Y.	lb.	42½	—
l.c.l., Waverly, N. Y.	lb.	45	—
tanks, Niagara Falls, N. Y	lb.	.40	—
industrial grade, dms. c.l., Niagara Falls, N. Y.	lb.	.29	—
l.c.l., Waverly, N. Y	lb.	.30	—
tanks, Niagara Falls, N. Y	lb.	.27	—
Aldol, 95%, dms., works	lb.	.23	—
denaturing grade, dms	gal.	2.15	—
Aldrin, 60% solut., dms., c.l., works, frt. alld	lb.	.93	—
l.c.l., works, frt. alld	lb.	1.05	—

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Aletris Root—Amyl Alcohol

Aletris root, bgs ..... lb. 1.35 - 1.40
Alizarin (see Red alizarin).
Alkanet, root, bgs ..... lb. .30 - .50
Allethrin, 100%, dms., works ... lb 42.50 - —
90%, dms., works ..... lb.38.25 - —
solution, 20%, dms., 100-lb. lots works lb. 8.55 - 9.55
2½% dms., works ..... gal. 7.55 - —
Allspice (see Pimento).
Allyl, bromide, cbys., works .... lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd ..... lb. .16¾- —
l.c.l., dlvd. ..... lb. .17½- —
tanks, dlvd ..... lb. .15 - —
Starch, solid, dms., works .... lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs ..... lb. .40 - .45
powdered, cs. ..... lb. .50 - .55
Curacao, kegs ..... lb. .60 - .65
Socotrine, kegs ..... lb. .25 .35
Aloin, USP, bbls., dms., kgs.... lb. 4.25 - 4.70
Alphanaphthol, bbls., frt. alld.... lb. .85 - —
Alphanaphthylamine, bbls., frt. alld. lb. .45 - —
Alphanaphythylthiourea, 93-98%, fib. dms., works, frt. alld lb. 2.00 - 2.40
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .39½- —
l.c.l., works, frt. equald .... lb. .40 - —
Alphapinene, tanks, South, works .... gal. No prices.
Alphaterpineol dms., l.c.l. dlvd. E. lb. .17 - —
Alphatocopherol, bots. ..... kilo.350.00 - —
Acetate, bots. ..... kilo.350.00 - —

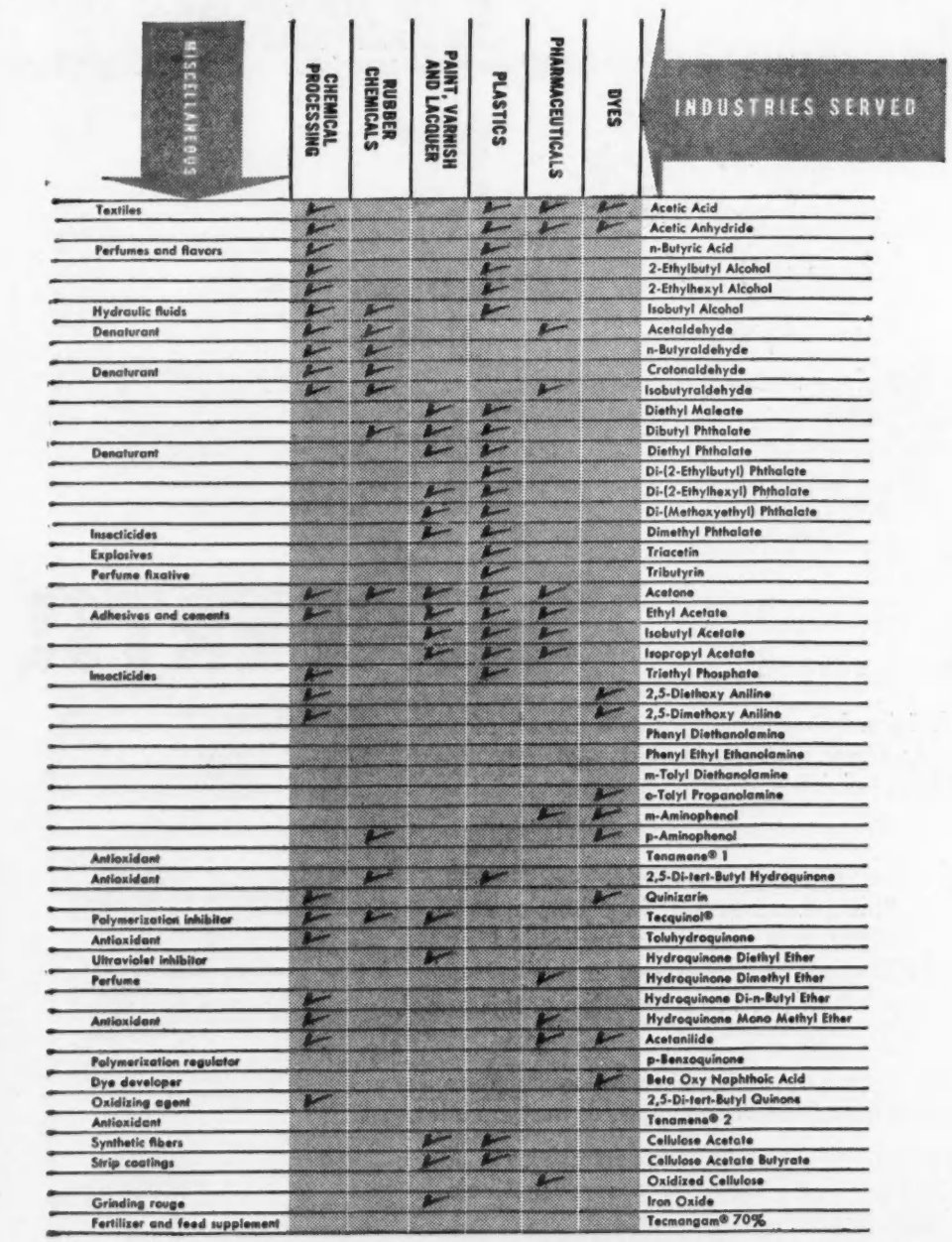
Althea root, NF, peeled, bls ..... lb. .20 - .33
Alum ammonium, gran., bgs., works..100 lbs. 3.80 - —
lump, dms., works.... 100 lbs. 4.55 - 4.95
powd., dms., works....100 lbs. 4.70 - 5.10
USP, burnt, dms ..... lb. .20 - .21
hydrous, dms ..... lb. .07¾- .08
Potassium, gran., bgs., works, 100 lbs. 4.05 - —
lump, dms., works....100 lbs. 4.80 - 5.20
powd., dms., works....100 lbs. 4.95 - 5.35
USP, burnt, dms ..... lb. .20 - .21
hydrous, dms ..... lb. .07¾- .08
Potash-chrome, dms ..... lb. .17 - —
Sodium, dms., c.l., works..100 lbs. 4.60 - —
l.c.l., works ..... 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works ..... lb. .0425- .0550
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .15½- —
cryst., dms., c.l., works .... lb. .1030- —
l.c.l., works ..... lb. .1070- —
solution, 32°, cbys., c.l., works. lb. .0369- —
l.c.l., works ..... lb. .0435- .0960
tankcars, works..100 lbs. 2.80 - —
NF, gran., dms., works ..... lb. .29 - .31
Fluoride, tech., anhyd., bbls., c.l., works lb. .11½- —
l.c.l., works ..... lb. .14½- —
Formate, basic solution, cbys. lb. .09½- —
l.c.l., works ..... lb. .10 - —

Aluminum hydrate, heavy, bgs., c.l., frt. equald..ton.60.00 - —
l.c.l., works ..... ton.65.00 -85.00
light, bgs., dlvd ..... lb. .17 - —
Hydroxide, gel., pharmaceutical, 14-15%, Al_2O_3, fib. dms., works..lb. .24 - —
contract, works..... lb. .22 - —
9-9½%, Al_2O_3, fib. dms., works..lb. .20 - —
contract, works..... lb. .19 - —
dried, USP, XIV, fib. dms., works..lb. .83 - —
contract, works..... lb. .80 - —
powder, tech (see Aluminum hydrate).
Laurate, precip., bbls ..... lb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots. lb. .19 - —
pigs, 10,000-lb. lots..... lb. .18 - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour classified, 8-240 mesh, dms. frt. alld lb. .14 - .15
kgs. ton frt. alld ... lb. .12½- —
smaller lots, frt. alld. lb. .13 - .15
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld..... lb. .31 - —
500 mesh, dms. frt. alld. lb. .35 - .37
kgs., frt. alld..... lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs., frt. alld..... lb. .50 - —
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
optical, floated, kgs., dlvd .... lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld..... lb. .15 - —

Aluminum paste, lining, extra-fine, dms..lb. .59½- —
standard, dms..... lb. .41 - —
Powder, lining, extra fine, dms.lb. .97½- —
standard, dms..... lb. .68½- —
rubber comp., dms..... lb. .58½- —
unpolished standard, dms.... lb. .54½- —
varnish standard, dms..... lb. .59 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., dms., frt. alld. lb. .26½- —
Stearate, dibasic, ctns., c.l.... lb. .33 - —
ton lots or less..... lb. .34 - —
monobasic, ctns., c.l..... lb. .33 - —
ton lots or less..... lb. .34 - —
tribasic, ctns., c.l..... lb. .33 - —
ton lots or less..... lb. .34 - —
Sulphate, com'l, bulk c.l., works. 100 lbs. 1.65 - —
ground, bgs., works..... ton.33.00 - —
lump, bgs., works ..... ton.36.00 - —
iron-free bgs., c.l., works, frt. equald 100 lbs. 3.25 - —
l.c.l., works, frt. equald 100 lbs. 3.65 - 6.15
USP, gran., dms., works... lb. .29 - .50
powd., dms., works ..... lb. .36 - .38
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, bots..... oz. 8.00 -10.00
Ambrette seed, bgs ..... lb. .65 - .66
Aminoazotoluene, bbls..... lb. .94 - 1.03
Aminoethylethanolamine, dms., c.l., works lb. .47 - —
l.c.l., works..... lb. .47½- —
tanks, works ..... lb. .45 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminophyllin, USP, 100-lb. dms..lb. 4.85 - —
Aminopyrine, USP, bots., dms lb 6.00 - 6.15
Ammonia anhydrous, fertilizer, tanks, works ton.79.00 -80.00
pure, cyls., extra, zone 1... lb .17 - .17¼
2 ..... lb. .17 - .18
3 ..... lb. .17 - .19
4 ..... lb. .20 - .21
5 ..... lb. .16 - .19
refrigeration, tanks, works ton.80.00 -82.50
Aqua (29.4% NH_3), dms., c.l., dlvd. Met. area..100 lbs. 3.60 - —
l.c.l., works..... 100 lbs. 4.00 - —
tanks, works, anhyd. basis ton.80.00 -86.00
Ammoniac gum (see Gum ammoniac).
Sal, gray, bgs., c.l., works, frt. equald. 100 lbs. 8.25 - —
l.c.l., same basis..... 100 lbs. 8.65 -11.15
white, gran., bgs., c.l., works 100 lbs. 4.75 - —
l.c.l., works ..... 100 lbs. 6.50 - —
Ammoniacal liquor, tankcars, works, anhyd. basis ton.75.00 -80.00
Ammonium acetate, purified, dms.lb. .43 - —
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld. lb. .80 - —
smaller lots, frt. alld..... lb. .81 - 1.08
Biborate, bbls., c.l., works... ton.312.00 - —
ton lots, ex whse ..... ton.375.00 - —
less ton lots, ex whse .. ton.380.00 - —
Bicarbonate, dom., dms., c.l., works lb. .06 - —
l.c.l., works ..... lb. .07 - —
imported, dms., l.c.l ..... lb. .07¼- .08¼
Bichromate, bbls., works..... lb. .33 - .38
Bifluoride, dms., dlvd ..... lb. .18¾- .19¾
Bromide, gran., NF, bbls..... lb. .38 - .39
dms. ..... lb. .39 - .42
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac sal)
USP, gran., bbls., dms..... lb. .19 - —
Citrate, dibasic, bbls..... lb. .75 - —
dms. ..... lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms..... lb. 2.40 - —
Iodide, NF, bots., jars..... lb. 4.01 - 4.13
Linoleate, 80%, dms., works... lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point ton.72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton.83.02 - —
domestic, bgs., western, works ton.64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va. ton.51.00 - —
Oleate, 75%, dms., works..... lb. .55 - .60
Oxalate, fine gran., dms ..... lb. .25 - .31
Pentaborate, gran., bbls., c.l., works. ton.222.00 - —
ton lots, ex whse ..... ton.285.50 - —
less ton lots, ex whse..... ton.290.00 - —
Ammonium pentaborate powder, $10 per ton higher.
Perchlorate, kgs., works..... lb. .50 - .75
Persulphate, kgs ..... lb. .30 - .35
Phosphate, com'l, bgs., c.l., works. lb. .08¼- —
l.c.l., works ..... lb. .08¾- —
dibasic, NF V, bbls., dms.. lb. .45 - —
tech., bgs., c.l., works ... lb. .08 - —
l.c.l., works ..... lb. .08½- —
Salicylate, NF, dms., kgs..... lb. 1.34 - 1.35
Silicofluoride, dms., works..... lb. .14 - —
Sulphamate, bbls., dms., works.lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens..ton.40.00 -45.00
synthetic, bgs., tanks ..... ton.54.50 - —
bulk, works ..... ton.51.50 - —
Sulphide, liq., 40-43%, dms., c.l., basis 100%, works ton.211.50 - —
l.c.l., basis 100% works.ton.312.50 - —
tanks, dlvd. or frt. alld.... ton.181.50 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l., works ..... lb. .19 - .20
Thioglycollate, com'l, cbys., 100% basis lb. 1.60 - —
highly purified, cbys., 100% basis lb. 1.70 - 1.96
Thiosulphate cryst., photo grade, fib. dms., frt. alld lb. .50 - .55
Amphetamine citrate dextro, bots. lb.36.00 -40.00
dextro-laevo, dms ..... lb. 6.50 - 7.00
Hydrochloride, dibasic, dextro, bots lb.36.00 -40.00
dextro-laevo, dms ..... lb 6.50 - 7.00
monobasic, dextro, bots..... lb.36.00 - —
Phosphate, dibasic, dextro, bots.lb.36.00 -40.00
dextro-laevo, dms ..... lb 6.50 - 7.00
Sulphate, dextro, dms ..... lb.36.00 -40.00
dextro-laevo, dms ..... lb. 6.50 - 7.00
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .19¾- .30¾
l.c.l., dlvd ..... lb. .20¾- .31¾
tanks, dlvd ..... lb. .18 - .29
ex pentane, dms., c.l., frt. alld. E. of Miss. R lb. .21½- —
l.c.l., same basis..... lb. .22½- —
tanks, same basis..... lb. .19½- —
Alcohol (see Alcohol, amyl).



Specifications, properties and other typical uses of these chemicals are contained in the Eastman Industrial Chemicals catalog. Write for your copy.

EASTMAN INDUSTRIAL CHEMICALS

SALES REPRESENTATIVES: New York—10 E. 40th St.; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; Houston—412 Main St. **West Coast: Wilson Meyer Co.,** San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Seattle—821 Second Ave.

TENNESSEE EASTMAN COMPANY *Division of Eastman Kodak Company* KINGSPORT, TENNESSEE

Amyl butyrate, dms	lb.	.90	1.05
Cinnamic aldehyde, dms	lb.	1.80	2.20
Nitrite, USP, bots	lb.	1.75	1.83
Salicylate, cns., dms	lb.	.77	.95
Anethol, NF, cns., dms	lb.	1.35	1.60
Angelica root, dom., bls	lb.	.60	.70
imported, bls	lb.	.50	.80
Angostura bark, bls	lb.	.43	.48
Anilin oil, dms., c.l., works, frt. alld.	lb	.19	—
l.c.l., works, frt. alld	lb.	.20	—
tanks, works, frt. alld	lb.	.18	—
Salt, dms., frt. alld	lb	.30	—
Anise, Chinese, star, bgs	lb.	No prices.	
Czech, bgs	lb.	.13½	.14
Mexican, bgs	lb.	.15	.15½
Spanish, bgs	lb.	.16	.16½
Turkish, bgs	lb.	.15	.15½
Anisic aldehyde, bots, dms	lb.	2.50	2.85
Annatto seed, whole, dms	lb.	.26	—
powdered, bgs	lb.	.28	—
Anthracene, 80-85%, bbls., works	lb.	1.10	—
90%, bbls., works	lb.	1.25	—
Anthraquinone, 99.5%, bbls., frt. alld	lb.	.85	.38
Antimony butter (see Antimony trichloride).			
Metal, bulk, c.l., mines	lb.	.50	—
cases, c.l., mines	lb.	.50½	—
Oxide, bgs, c.l., frt. alld	lb	.44½	—
l.c.l., frt alld	lb.	.45½	—
Sulphide 62-64%, bgs., frt. allds., dlvd	lb.	.42	42½
Trichloride, pails, c.l., works	lb.	.35¾	50
l.c.l., works	lb	.37¾	52
solution, cbys	lb	29	30
Antimony-potassium tartrate (see Tartar emetic).			
Antipyrene NF, dms	lb.	2.50	2.60
Apomorphine hydrochloride, USP, bots	oz.	23.40	23.90
Areca nuts, powd., bbls	lb	.13	.16
Arecoline hydrobromide, NF, bots, tins	oz.	5.00	5.75
Arginine monohydrochloride, Ineve dms., 1 kilo lots	kilo.	77.00	—
Argols, min 50%, bgs., shipment ports, per 100 kilos (100% basis)		40.00	—
Arnica (true montana) flowers, bls	lb.	.55	.75
root, bls	lb	1.45	—
Arrowroot, powd., bgs	lb	.11	.14
Arsenic metal (lump bbls., prompt ship't	lb	.80	.90
Trioxide, USP dms	lb.	.40	—
White, powd., bbls., c.l., dlvd	lb.	.06½	—
l.c.l., dlvd	lb.	.07½	.08½
Asafetida, cs	lb.	.32	.35
powd., bbls., dms	lb	.50	.53
Asbestine (see Talc, fibrous, N. Y.)			
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines	ton.	1,300.00	—
No. 2, c.l. (20 tons), mines	ton.	675.00	—
Run-of-mine, c.l. (20 tons), mines	ton.	556.00	—
fiber, 3K, c.l. (20 tons), mines	ton	436.00	—
3R, c.l. (20 tons), mines	ton	371.00	—
3T, c.l. (20 tons), mines	ton	348.00	—
3Z, c.l. (20 tons), mines	ton.	321.00	—
4K, c.l. (20 tons), mines	ton	173.00	—
4M, c.l. (20 tons), mines	ton.	173.00	—
4T, c.l. (20 tons), mines	ton.	156.00	—
4Z, c.l. (20 tons), mines	ton.	156.00	—
5D, c.l. (20 tons), mines	ton	122.50	—
5K, c.l. (20 tons), mines	ton	122.50	—
5M, c.l. (20 tons), mines	ton	116.50	—
5R, c.l. (20 tons), mines	ton	110.00	—
6D, c.l. (20 tons), mines	ton.	78.00	—
7D, c.l., (20 tons), mines,	ton.	68.50	—
7F, c.l. (20 tons), mines	ton	65.00	—
7H, c.l. (20 tons), mines	ton	55.00	—
7K, c.l. (20 tons), mines	ton	46.00	—
7M, c.l. (20 tons), mines	ton	40.00	—
7R, c.l. (20 tons), mines	ton	39.00	—
7T, c.l. (20 tons), mines	ton	37.00	—
7RF, c.l. (20 tons) mines	ton	40.00	—
7TF, c.l. (20 tons), mines	ton	40.00	—
8S, c.l. (20 tons), mines	ton	27.00	—

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

Asphalt, gilsonite, blacks, seconds, 300°-390°F. fusing point not uniform, bgs., c.l. Craig, Colo.; Heber City, Utah	ton.	34.00	—
select, 350°F. fusing point, bgs., c.l., same basis	ton	38.00	—
270°-295°F. fusing point, bgs., c.l., same basis	ton	37.00	—
jet, bgs., c.l., same basis	ton	34.00	—
Manjak, No. 10, crude, dms., works	lb	.06½	—
Petroleum, cut-back, tanks, tank-wagon, refinery	gal.	.09	—
emulsion tanks, tank wagon, refinery	gal.	.09½	.10
steam refd., less than 80 penetration tanks, tank wagon, refinery	ton	22.00	—
80-300 penetration, tanks, tank wagon, refinery	ton.	21.00	—
Aspirin (see Acid, Acetylsalicylic)			
Atropine, USP, bots	oz.	9.00	11.50
Sulphate, USP, bots	oz.	5.60	6.30

B

Bacitracin, wholesalers, unlabeled, topical, 2,000 units	vial	.42	—
10,000 units	vial	.80	—
50,000 units	vial	2.88	—
Balm of Gilead buds, dried, bgs	lb	1.35	1.45
Barberry, root, bark, bags	lb	.35	.40
tree bark, bgs	lb	.40	.45
Barbital, USP, 100 lb dms	lb	5.00	—
Sodium, USP, dms	lb	5.25	5.27
Barium carbonate, precip., bgs., c.l., works	ton	85.50	—
smaller lots, works	ton.	93.50	—
Chlorate, kgs., works	lb.	.30	.35
Chloride, anhyd., bgs., c.l., works bgs	ton	152.00	—
l.c.l., works	ton.	162.00	—
NF, cryst., dms	lb.	.18	.21
Chromate, bgs., frt. equald	lb.	.31½	.32
Dioxide (see Barium peroxide).			
Hydrate, crystals, bgs	ton.	190.00	200.00
Iodide, bots	lb.	6.14	—
Monoxide (see Oxide).			
Nitrate, bbls., c.l., works	lb.	.12½	—
l.c.l., works	lb	.14	—
Oxide, grd., dms., c.l., works	ton	250.00	—
l.c.l., works	ton.	260.00	—
Peroxide, dms., works	lb.	.16	—
Stearate, cns., c.l	lb.	.37	—
ton lots	lb.	.33	—
less ton lots	lb.	.39	—
Sulphate, tech. (see Barytes and Blanc fixe).			
X-ray, bbls.	lb.	.14	—
Sulphide, dms., c.l., works	ton.	71.50	—
l.c.l., works	ton.	81.50	—
Baryte ore, approx. 94%, $BaSO_4$, bulk, mines	ton	9.40	12.50
Barytes, Southern off-color, bgs., mines	ton	20.00	—
95.75% bgs, mines	ton.	20.00	—
water grd., paper bgs., c.l., St. Louis	ton	37.60	37.85
ex whse., N. Y.	ton.	53.45	81.75
Bauxite, bulk, mines	ton.	9.50	10.00
Bay leaves (see Laurel leaves).			
Belladonna leaf, bls	lb.	.40	.45
root, bls	lb.	.45	.50
Bentonite, 200 mesh bgs., works	ton.	12.50	—
Italian, white, high gel, bgs., l.c.l., works	ton.	71.40	—
5 ton lots	ton.	68.90	—
ex dock, 10 ton lots	ton.	57.00	—
low gel, bgs., l.c.l.	ton.	69.70	—
5-ton lots	ton.	67.20	—
ex dock, 10 ton lots, ton		55.00	—
Benzaldehyde, NF, dms	lb.	.74	.79
tech., cbys., dms	lb.	.49	.54
Benzal chloride, cbys., works	lb.	.22	.23½
Benzene (see Benzol).			
Hexachloride, 99% gamma isomer (see Lindane).			
tech., bgs., dms., c.l., works, gamma unit	lb.	.015	.020
l.c.l., works, gamma unit	lb.	.019	.021
dust, dry, distributors, dms., c.l., dlvd., gamma unit	lb.	.02	.02¼
l.c.l., dlvd., gamma unit	lb.	.0275	—
wet, distributors, dms., c.l., dlvd., gamma unit	lb.	.0325	—
l.c.l., dlvd., gamma unit	lb.	.0335	.0400
Benzidine, base, bbls	lb.	1.02	—
Hydrochloride, bbls., frt. alld	lb.	.94	—
Benzocaine, dms	lb.	3.50	3.77
Benzol, pure, nitration, tanks, works			
Bethlehem, Pa	gal.	.37	—
Birmingham district	gal.	.30	.35
Chicago district	gal.	.30	.35
Cleveland district	gal.	.30	.35
Geneva, Utah	gal.	.30	—
Johnstown, Pa	gal.	.35	—
Lackawanna, N. Y.	gal.	.37	—
Lone Star, Texas	gal.	.37	—
Lorain, Ohio	gal.	.30	—
Minnequa, Colo	gal.	.35	—
Philadelphia, Pa	gal.	.37	.39
Pittsburgh district	gal.	.30	.35
Sparrows Point, Md	gal.	.37	—
Syracuse, N. Y.	gal.	.37	—
Terre Haute, Ind	gal.	.35	—
Wyandotte, Mich	gal.	.38½	—
Youngstown, Ohio	gal.	.35	—
Benzophenone, dms	lb.	1.40	1.70
Benzonitrile, dms., c.l., works	lb.	.46¾	—
l.c.l., works	lb.	.47	—
Benzotrichloride, cbys., frt. equald	lb.	.18	.20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald	lb.	.20½	.23½
l.c.l., same basis	lb.	.21½	.24½
Peroxide, pure, fib. ctns., works	lb.	.90	1.05
Benzyl acetate, f.f.c., cns., dms	lb.	.65	1.05
Alcohol (see Alcohol, benzyl).			
Benzoate, USP, f.f.c., cns., dms	lb.	.80	—
Chloride, tech., cbys., c.l., works, frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.22	—
High grade benzyl chloride, 2c. higher.			
Cinnamate, cns	lb.	3.00	4.00
Formate, cns	lb.	1.60	2.10
Propionate, bots	lb.	1.35	1.80
Salicylate, bots	lb.	1.65	1.85
Benzylidinacetone, bots	lb	1.63	2.45
Benzylisoeugenol, bots	lb.	10.25	10.95
Berberine bisulphate, cns	lb.	35.00	36.25
Hydrochloride, bots	lb.	35.00	36.25
Sulphate, cns	lb.	35.00	36.25
Berberis root, bls	lb.	.22	.30
Betagammapicoline, 5°, dms., c.l., works	lb.	.29½	—
l.c.l., works	lb.	.30	—
Betamethylnaphthalene, 32°C m.p., dms., works	lb.	.90	—
Betanaphthol, resublimed, dms., works	lb.	.78½	—
tech., bbls., c.l., works	lb.	.32	.32½
l.c.l., works	lb.	.34	—
Betanaphthol benzoate, fib. dms., works	lb.	3.00	—
Custom contract	lb.	1.65	1.85
Salicylate, dms	lb.	5.00	—
Betanaphthylamine, tech., bbls., works	lb.	1.05	1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots	lb.	1.10	—
smaller lots	lb.	1.15	1.40
Betapicoline, 98%, dms., works	lb.	1.05	—
Beth root, bls	lb.	.45	.50
Biotin, cryst., bots	gram	10.00	—
Bismuth chloride, jars	lb.	5.11	—
Hydroxide, dms	lb.	4.65	—
Metal, bxs., ton lots	lb.	2.25	—
Nitrate, cryst., dms	lb.	2.17	—
Oxide, anhydrous, dms	lb.	4.47	5.05
Oxychloride, dms	lb.	4.27	4.42
Phenolsulphonate, fib. dms	lb.	5.22	—
Subcarbonate, USP, dms	lb.	3.20	—
Subgallate, NF, fib. dms	lb.	3.15	—
Subiodide, fib. dms	lb.	3.37	—
Subnitrate, NF, dms	lb.	2.65	—
Subsalicylate USP, dms	lb.	3.50	—
Bismuth-ammonium citrate, USP, powd., jars	lb	4.22	—
Black, acetylene, bgs., c.l., works	lb.	.16	—
cs, l.c.l., ship't point	lb.	.20	.22
Bone, bgs., bbls., c.l., dlvd	lb.	.14¾	.21

Carload price ½c. per lb. less. Deliveries to the Pacific Coast ex dock or whse., 1½c. per lb. higher.

Carbon, channel, heads, bulk c.l., works	lb.	.07	—
bgs., c.l., works	lb.	.0740	—
l.c.l., dlvd or whse	lb.	.1225	—
uncompressed, regular, bgs., c.l., works	lb.	.10	—
bgs., ctns., l.c.l., dlvd or whse	lb	.10	—

Amyl Butyrate—Black, Carbon, Channel

MR. PURCHASING AGENT:

SAVE AS MUCH AS 50%
. . . MORE in some cases

QUANTITIES RANGE UP TO SEVERAL CARLOADS*

Acetic Anhydride
Alumina Hydrate, lt. Westvaco
Alumina Hydrate, heavy, Penn Salt
Ammonium Bromide
Ammonium Sulfate CP
Aniline Oil
Aroclor #1270, Monsanto
Beckamine P613-40
Caffeine, anhydrous
Caffeine-Sodium Benzoate, Mallink't
Calcium Titanate
Calomel
Cellosolve
Cellulose Acetate in Diacetone
Cetyl Alcohol, DuPont
Chinlofon
Cinchonine (Alkaloid & Sulfate)
Cinchonidine (Alkaloid & Sulfate)
Copper Oxide, black
Dibutyl Phthalate
Dimethyl Acetophenone
Dimethyl Phthalate
Ethyl Lactate
Formic Acid 85%
Formaldehyde
Halowax #1659 black
Isobutyl Methacrylate Polymer

Lead Stearate
Magnesium Oxide, lt. Mallink't & Baker
Manganese Acetate, Harshaw
Mercapso Aero AC-165, Amer. Cyanamid
Methyl Carbitol
Methyl Cellosolve
Methyl Isobutyl Carbinol
Napalm
Nickel Salts, Single
Nitrobenzene
Paris Green
Potash Bichromate
Potassium Guaiacol Sulfate
Propylene Glycol
Sal Ammoniac 99½%
Saran B121
Silica Gel
Sodium Bichromate
Sulphur Flowers
Theobromine-Sodium Benzoate
Trichlorethylene
Titanium Dioxides
Urea Formaldehyde Molding Powder, Ivory, Soft Glow
Wax Condenser, Biwax Co.
Zinc Oxide
Zinc Stearate

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Cadmolith Orange
Cadmium Sulphide Orange
Carbon Black, with accelerator
Chrome Green, extra lt., Imperial
Fast Blue 48 G 05, Ansbacher
Green Lake PBG 578 D, DuPont
Maroon Blend, Harmon
Methyl Orange
Pigment Red
Toluidine Maroon, Harmon
Vermillion Amer. 23 B 04 Ansbacher
Yellow Lake YL 465 D, DuPont
Certified Red #2 & #34; Yellow #1
Inks—Red, Orange, Yellow, Brown (Gov't Specs.—I.P.I.)

• • •

Aloin Compound Pills
Ammoniated Mercury Oint., tubes
Aromatic Ammonia, ampules
Bandages, compressed, 1" x 6 yds.
Boric Acid Oint., tubes
Brilliant Green Stain, bts.
Camphor in Oil, ampules
Capsules Yellow No. 1, Lilly
Folix B Tablets
Fungicidal Oint., tubes
Hematoxylin, CP, Coleman & Bell
Mennens Talc, borated & plain
Mercuric Oxide Oint., yellow, tubes
Plasmochin
Sodium Sulfadiazine, vials
Toothbrushes, Nylon

Inquiries should state quantities required

WE WILL PAY PREMIUM PRICES FOR
ETHYLENE GLYCOL, PICOLINES, QUINALDINES, PYRIDINE 2°, DIPHENYLAMINE, INOSITOL and many more materials.
What can you supply?

CHEMICAL SERVICE CORPORATION

ESTABLISHED 1925
88 BEAVER STREET
Tel. Hanover 2-6970
NEW YORK 5, N. Y.

Black, Carbon, Furnace—Calcium Arsenate

Black, carbon, furnace, fast extruding, bgs. c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion bulk, c.l., works lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd or whse lb. .1250- —
high modulus, bgs., c.l., works lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .04 - —
ctns. l.c.l. whse lb. .08 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. .1175- —
l.c.l. works lb .12 —
Lamp, bgs., c.l., works lb .16 .45
Mineral, bgs. works lb .0160- .0675
Black ash (see Barium sulphide).
Blackberry bark of root, bls lb .25 .30
root, bls lb .15 .16
Black dyes (see Dyes).
Black haw, root, bark bls lb .75 .80
tree bark, bls lb .38 .40
Black indian hemp root, bls lb .50 .58
Blanc fixe dry by-product, bgs., c.l., works ton 100.00 —
l.c.l., works ton 110.00 —
direct process, bgs., c.l., works ton 90.00 —
l.c.l., works ton 100.00 —
N. Y. whse ton 120.00 130.00
pulp, 66⅔%, bbls., c.l., works ton 84.00 —
l.c.l., same basis ton 92.00 —
Bleaching powder, dms., c.l., works 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 7.50 - —
high-grade, unground, 16-17% ammon, bgs., Chicago, unit-ton. 7.00 - —
soluble, bgs., c.l. lb. .17 - .18½
l.c.l. lb. .18 - .25
Bloodroot, bls lb. .68 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
Toner, bbls., litho flushed, same basis lb. 1.10 - —
Chinese, bbls., same basis lb. .45 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.85 - —
resinated, bbls, same basis lb. 3.40 - —
water dispersable lb. 1.54 - —
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA bbls., same basis lb. 2.00 - —
tungstate, PTMA, bbls., same basis lb. 3.10 - 3.52
Milori, bbls., same basis lb. .45 - —
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .75 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb .45 - —
soluble, bbls., same basis lb. .48 - —
Soda, C.P., bronze, bbls, same basis lb. .45 - —
Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .28 - .30½
regular types, dry, bbls., same basis lb. .15 - .33½
Victoria toner, molybdic, PMA, bbls. lb. 3.90 - —
Tungstic, PTMA, bbls lb. 4.25 - 4.82
Blue, dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls lb. .50 - .55
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls lb. .08 - .12
Bone, raw bulk Atlantic ports ton 60.00 - —
Meal, raw, 4½% ammon, 50% phos., bgs., works, E ton 75.00 - —
steamed, works, E ton 82.50 - —
Phosphate, defluorinated (see D), precipitated (see Calcium phosphate tribasic precip).
Boneset leaves and tops, bls lb. .17 - .20
Borage flowers, bls lb. .40 - .49
Borax, tech. anhydrous, bgs., c.l., works ton 74.50 - —
ton lots, ex whse. N. Y. or Chi ton 120.25 - —
less ton lots, same basis. ton 125.25 - —
bulk, c.l., works ton 67.50 - —
crystals, 99½%, bgs., c.l., works ton 63.75 - —
ton lots, ex whse. N. Y. or Chi ton 109.50 - —
less ton lots, same basis ton 114.50 - —
Borax, tech., cryst., 99½% bbls., c.l., works ton 88.25 - —
ton lots, ex whse., N. Y., or Chi. ton 134.00 - —
less ton lots, same basis. ton 139.00- —
bulk, c.l., works ton 59.25 - —
granular, 99½%, bgs., c.l., works ton 37.75 - —
less ton lots, same basis. ton 88.50 - —
ton lots, ex whse., N. Y. or Chi. ton 83.50 - —
bbls., c.l., works ton 62.25 - —
ton lots, ex whse., N. Y. or Chi ton 108.00 - —
less ton lots, same basis. ton 113.00 - —
bulk, c.l., works ton 33.25 - —
powder, bgs., c.l., works ton 42.75 - —
ton lots, ex whse., N. Y. or Chi ton 88.50 - —
less ton lots, same basis. ton 93.50 - —
bbls., c.l., works ton 67.25 - —
ton lots, ex whse., N. Y. or Chi ton 113.00 - —
less ton lots, same basis. ton 118.00 - —
bulk, c.l., works ton 38.25 - —

Borax packed in kgs. $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .161 - .221
l.c.l., same basis lb. .171 - .241
Borneol, cns. lb. 2.25 - 2.50
Bornyl thiocyanoacetate (see Isobornyl thiocyanoatcetate).
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .25 - —
1,000-lb. lots, same basis lb. .27 - —
dms., lead-lined, dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 5.70
Bronze powder, aluminum (see A).
Gold, litho. cns., dms., works, lb. .75 .85
moulding, cns., dms., works lb. .85 1.00
printing ink, cns., dms., works lb. 1.05 1.25
radiator, cns., dms. works lb. .80 .85
Broomtop, bls lb. .30 .35
Brown, iron oxide, synth., bgs., works. lb. .1275- .13
Oxide, metallic, bgs., works lb. .0375- —
Sap, crystals, bgs., works lb. .12 —
powdered bgs lb. .13 -
Sienna, burnt paper bgs., c.l., works lb. .04¼ .15¼
l.c.l., works lb. .04¼ .15½
raw, paper, bgs., c.l., works lb. .04½ .13
l.c.l. works lb. .04¾ .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
Turkey type, bgs., c.l., Boston, Bethlehem Easton, Pa., Hiwassee, Va., N. Y. lb. .06¼- —
l.c.l., works lb. .06½- —
raw American, bgs., same basis lb. .06¼- .06¼
Turkey type bgs., same basis lb. .06½ .06¾
Vandyke, bbls. works lb. .11 —
Brucine, cns., 100 ozs oz. .35 —
Sulphate, NF, cns., 100 ozs oz. .27 .30
Bryonia root, bls lb. .22 .34
Buchu leaves, bls lb. .35 - .40
Buckthorn bark bls lb. .13 .17
cut and sifted, bls lb. .18 .23
Berries, bgs lb. .80 .90
Burdock, root, bls lb. .22 .26
Butadiene, cyls refinery lb. .22 - —
tanks, same basis lb. .11½ .12¼
Butane, indust., tanks, group 3 gal. .05 - —
Butternut bark, bls lb. .23 - .25
Butyl acetate fermentation, normal, dms., c.l., frt. alld. E lb. .17 - .29¾
l.c.l., same basis lb. .17¾- .30¾
tanks same basis lb. .15¼- .28
synthetic, normal, dms., c.l., same basis lb. .17 - —
l.c.l., same basis lb. .17¾- —
tanks, same basis lb. .15¼- —
secondary, dms., c.l., same basis lb. .14 - —
l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .12¼- —
Alcohol (see Alcohol butyl).
Aldehyde, dms., c.l., dlvd lb. .23½- —
l.c.l., dlvd. lb. .24½- —
tanks, dlvd lb. .20¾- —
Chloride, dms., c.l., works lb. .43½- —
l.c.l., works lb. .44 - —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .34¾- —
l.c.l., same basis lb. .35¾- —
tanks, same basis lb. .33 - —
Laurate, dms works lb. .39 - —
Methacrylate normal, dms., less truckloads, works lb. .70 - —
Oleate refd., dms., l.c.l., works lb. .36 - —
Phenylacetate, dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate)
Stearate, dms., l.c.l., frt. equald lb. .24 - .27¾
Butylamine dms., c.l., frt. alld lb. .54¾ - —
l.c.l., same basis lb. .55¾- —
tanks, same basis lb .53 - —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars lb. 5.00 5.22
Metal, ingots or sticks, cs., dlvd. lb 2.55 - —
Stearate, 50-lb. ctns., l.c.l., f.o.b. N. Y., frt. equald lb 1.25 - —
Caffeine, natural, USP, cryst., dms., 100 lbs or more lb 5.25 - —
anhydrous, dms lb. 5.50 - 5.75
synthetic USP, cryst., dms., 100 lbs. or more lb 3.80 - —
anhydrous, dms., 100 lbs. or more lb. 4.00 - —
Citrated, USP, dms., 100 lbs. or more lb 2.60 - —
Hydrobromide, bots lb 7.72 7.97
Calamine, USP, dms lb. .34 —
Calamus root, dom., natural, bgs. lb. .25 .30
imported, bleached, bls lb. .70 Nom.
stripped, bls lb. .30 .40
Calciferol cryst., vials, 250 grams or more, works gram 1.90 - —
25 to 249 grams, works gram 2.10 - —
1 to 24 grams, works gram 2.30 - —
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit, .04¾- —
1,000 to 10,000 standard units, works unit, .05¼- —
less than 1,000 standard units, works unit .05¾ - —
Calcium acetate, bgs., dlvd 100 lbs. 3.09 4.00
Arsenate dealers, dms., c.l., whse., works, frt. alld. on 96 lbs. or over lb. .12 .11
l.c.l., same basis lb. .11 - .13

CSC increases METHANOL output

Commercial Solvents Corporation, a leader in the field of petrochemicals, has stepped up production of synthetic methanol at its Sterlington Plant in Louisiana to an all-time high.

Output will be still further increased upon completion of additional units now under construction at Sterlington. Scheduled to be in operation by the spring of 1953, the new $20,000,000 facilities will double both methanol and ammonia output.

High-quality CSC methanol, produced from natural gas, is being supplied at a minimum purity of 99.85% in tanker, barge, tank car, tank truck and drums to all parts of the United States from conveniently located bulk and distribution points. For further information contact the Industrial Chemicals Division, Commercial Solvents Corporation, 17 East 42nd Street, New York 17, N.Y.

CSC

INDUSTRIAL CHEMICALS DIVISION

COMMERCIAL SOLVENTS CORPORATION

ACIDS • ALDEHYDES • ALCOHOLS • ESTERS • AMINES • AMINO ALCOHOLS
NITROGEN COMPOUNDS • NITRO COMPOUNDS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Calcium bromide, NF, jars ..... lb. .90 - 1.10
Carbide, standard generator size, dms., c.l., dlvd ton. 128.00 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton. 25 00 - —
liquor, same basis, 40%, tank cars ton. 10.50 - —
pellets, bgs., c.l., works ton. 31.25 - —
powder, bgs., c.l., works ton. 35.65 - —
solid, 73-75%, dms., c.l., frt. equald ton. 23.50 - —
t.c.l., works, same basis ton. 32.00 -69.00
USP, gran., bbls ..... lb. .30 - —
Chromate, bgs., frt. equald ... lb. .29½ - .30
Cyanide, dms., dlvd. E. of Rockies. lb. .30 - .50
Gluconate, AA, bbls., dms ..... lb. .65 - .74
USP, bbls., dms ..... lb. .58 - .67
Glycerophosphate, NF, fib. dms. lb. 2.00 - 2.15
Hydride, dms., works ..... lb. 2.40 - 3.00
Hypochlorite, high test, cns., cased (45 lbs.) dlvd. E. of Rockies cs. 21.00 -23.00
100 lbs., dms., same basis dm. 25.25 -29.85
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars ..... lb. 4.32 - —
Lactate, USP, dms., 10,000 lbs. or more, works lb. .40 - —
smaller lots, works ..... lb. .41 - .43
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt equald ..... lb. .25¾ - —
Nitrate tech., bbls., works ... lb. .10 - .12
fertilizer grade, bgs., c.l., Los Angeles ton. 49.25 - —
Panthothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07½ - —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb. 7.00 - —
smaller lots, same basis ... lb. 7.05 - 7.50
Phenolsulphonate dms ..... lb. 70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.00 - 7.25
t.c.l. ..... 100 lbs. 7.25 - 7 75
feed grade, bgs. c.l., works ton. 92.50 - —
t.c.l., bgs., works ton. 95 00 - —
monobasic, bgs., 10,000 lbs., works, frt. equaid lb. .0605- —
smaller lots, same basis lb. .0655- —
tribasic, bgs., c.l., works. 100 lbs. 6.75 - —
t.c.l., works ..... 100 lbs. 7.20 - 7.50
Phytate, bgs works ..... lb. .28 - —
Resinate, precip., dms. frt. alld., works lb. .27½ - —
Silicate hydrated, bgs., c.l., works lb. .06 - —
t.c.l., works ..... lb. .06½ - —
Stearate, ctns., c.l. ..... lb. .35 - —
ton lots ..... lb. .36 - —
less ton lots ..... lb. .37 - —
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent, steel pails, 100 lb. to 999 lb. lots, works. lb. 2.60 - 3.50
fine particle size, same basis, works lb. 2.85 - 3.75
Calendula flowers, bls ..... lb. .50 - .65
Calomel, USP, powd., dms ..... lb. 4.02 - 4.05
Camphene, dms., extra, c.l., works. 100 lbs. 17.80 -18.80
t.c.l. same basis ..... 100 lbs. 18.30 -19.65
tanks, same basis ..... 100 lbs. 15.60 -16.60
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.00 - 3.10
natural, USP, powd., 100-lb lots, bbls lb. .52 - 60
tablets, 1-oz., ½-oz., cs lb. .69 - .73
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots. lb. .55½ - —
smaller lots ..... lb. .56 - .68
USP gran., powd., bbls., 2,000-lb. lots lb. .60 - —
1,000-lb. lots ..... lb. .61 - —
smaller lots ..... lb. .62 - —
tablets, tins, 2,000-lb. lots lb. .93 - —
1,000-lb. lots ..... lb. .94 - —
smaller lots ..... lb. .95 - —
Canada balsam (see Fir balsam)
Canella alba bark, bls ..... lb. .25 - .33
Cantharides, Chinese, cs ..... lb. 1.05 - 1.20
powd. bxs ..... lb. 1.15 - 1.40
Russian, bgs ..... lb. 2.80 - 3.25
powd. bxs ..... lb. 2.90 - 3.50
Capsicum (see Pepper, red).
Oleoresin, NF from domestic pepper dms. ... lb. 4.25 - 5.60
from African pepper, dms lb. 5.00 - 6.65
Caramel coloring, NF, bbls ... gal. 1.05 - 1.20
Caraway seed, Dutch, bgs ..... lb. .11 - .11½
Carbazole 97% steel dms, ton-lots, works lb. 1.55 - —
bbls., same basis ..... lb. 1.65 - 1.85
Carbinol, methylisobutyl, dms., c.l., frt. alld lb. .15¼ - —
t.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13½ - —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points lb. .0700- —
t.c.l., same basis ..... lb. .0800- —
5-gal. dms., c.l., same basis lb. .0950- —
t.c.l., same basis ..... lb. .1050- —
tankcars, same basis ..... lb. .0490- —
Dioxide, cyls ..... lb. .08 - —
Tetrachloride, CP, dms., works lb. .111 - .121
NF, cbys ..... lb. .17 - .19
tech., dms., c.l., E. of Rockies, frt. alld lb. .0360- —
W. of Rockies, f.o.b stock points lb. .0960- —
t.c.l., E. of Rockies, frt. alld. lb. .1060- —
W. of Rockies, f.o.b. stock-points lb. .1120- —
tanks, E. of Rockies, frt. alld. lb. .0785- —
W. of Rockies, f.o.b. stock-points lb. .0835- —
Carboxymethylcellulose-Sodium—See CMC
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works ..... lb. 4.10 - 4.75
Cardamom fruit, bleached, A, cs lb. 4.10 - 4.15
medium, cs ..... lb. 3.70 - 3.75
decorticated, Alleppey, cs ... lb. 3.20 - 3.25
Guatemalan, cs ..... lb. 3.20 - 3.25
Mangalore type, cs ..... lb. 3.00 - 3.05
Indian, cs ..... lb. 3.40 - 3.45
green, Alleppey, bgs ..... lb. 2.10 - 2.15
Ceylon, bgs ..... lb. 2.10 - 2.15
seed (see Cardamom fruit, decorticated).
Carmine No. 40, NF, bulk, 100 lbs. or more, dlvd lb. 5.50 - —
smaller lots, dlvd ..... lb. 5.65 - 6.15
Carotene, crystals, research grade, pure alpha or beta ampuls. 10 mg. 5.00 - —
90% beta-10% alpha, ampuls 100 mg. 2.00 - —
gram, quantities, ampuls, gm. 5.00 - —
technical, 1,350,000 A units per ampula gram gm. .67½ - —
tins, works ..... gm. .50 - —
dry powder, 3,330 A units per gram., tins lb. .81 - —
emulsion (in milk), 600,000 A units per 16-oz. can. per can. 1.00 - —

Carotene, tech., in vegetable oil, 166,666 A units, per gram. lb. 25.24 - —
50,000 A units per gram, cns lb. 7.86 - —
3,330 A units per gram cns lb. .85 - —
feed grade, 5,000,000 to 8,000,000 A units, per lb., dms., works mill units. .18 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works. mill. units. .30 - —
Carvol, bots ..... lb. 8.75 -10 50
Cascara sagrada bark, bulk ..... lb. .37 - .38
Casein dom., acid-precip standard, bgs., 10,000-lb. lots or more, ship't point lb. .28 - .30
premium bgs., 10,000-lb. lots or more, ship't point lb. .37 - .38½
imported, Argentine, acid-precip., grd., 100-bg., lots or more, ex dock lb. .17¼ - .22½
other origins, rennet, bgs, 10,000-lb. lots or more, ex dock lb. .26 - —
Cashewnut shell liquid, treated, dms., c.l., f.o.b Newark, N. J lb. .21 - —
ton lots, same basis ... lb. .22¼ - —
dm lots, same basis ... lb .24¼ - —
Cassia, Batavia, cuttings, bls ..... lb. .13½ - .14
longstick ..... lb. .16 - .17
shortstick, bls ..... lb. .14 - .14½
China, Canton, Kwangsi rolls, select, cs lb. .19 - .20
broken, bls ..... lb. .17 - .18
Honan, Yunnan, scraped, bls. lb. .28 Nom.
broken, bls ..... lb. No stocks.
unscraped, bls. ..... lb. .27 - .27½
broken, bls ..... lb. No stocks.
Saigon, broken, bls ..... lb. .25½ - .26
medium, bls ..... lb. .29 - .45
thin, bls ..... lb. .50 - .51
Cassia buds, bgs ..... lb. .30 - .31
Fistula, bskts ..... lb. .25 - .30

Castor beans, bgs., f.o.b. Brazilian ports long ton. 210.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ... ton. 37.25 - —
Castoreum artificial, cns ..... lb. 9.00 - 9.25
natural, cns ..... lb. 7.00 -30.00
Catechol, CP, cryst. fib. dms., works lb. 2.17½ - —
resublimed dms., works ..... lb. 4.29½ - —
Catnip leaves, southern, bls ..... lb. .65 - .70
Celery seed, French, bgs ..... lb. .34 - .34½
Indian, bgs ..... lb. .29 - .29½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., works, frt. alld. on 100 lbs. or more lb. .43 - .48
molding, composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .50 - —
t.c.l., same basis ..... lb. .53 - —
regular, black, dms., t.c.l., same basis lb. .43 - —
molding and extrusion transparents, dms., c.l., same basis lb. .55 - —
t.c.l., same basis ..... lb. .58 - —
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb. .55 - —
t.c.l., same basis ..... lb. .58 - —
Acetate-butyrate, flake, 16% butyryl content, ctns., 500 lbs. or over, works ... lb. .64 - —
17% butyryl content, ctns., 500 lbs. or over, works lb. .54 - —
27% butyryl content, 500 lbs. and over, works lb. .64 - —

Calcium Bromide—Charcoal, Bone

Cellulose acetate-butyrate, flake, 38% butyryl content, low viscosity, ctns., 500 lbs. and over, works lb. .68 - —
medium viscosity, same basis lb. .54 - —
flake, 50% butyryl content, ctns., 500-lbs. and over, works lb. .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., t.c.l., frt. alld lb. .65 - —
regular black dms., t.c.l. same basis lb. .53 - —
Triacetate, flake ctns., works, frt. alld. on 100-lbs. or more. lb. .52 - —
Cerium hydrate, dms., works ... lb. 1.44 1.60
Oxalate, NF, bbls., bgs., works. lb. No prices.
Oxide, optical grade, bgs., 50-lbs. or more, works lb. 1.75 1.95
smaller lots, works lb. 1.80 2.25
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l. works lb. .0295- .035
t.c.l., ex whse ..... lb. .0395- .05
paint, bgs., c.l., works ..... ton. 40.00 - —
papermakers, bgs., c.l., works. ton. 32.50 -40.00
rubber makers, bgs., c.l., works. ton. 55 00 -60.00
Chamomile flowers, Hungarian and Hungarian style, cs lb. .60 - 70
Roman, cs ..... lb. 75 - .80
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - 32
5-ton lots, works ..... lb. .26½ - .32½
smaller lots, works ..... lb. .27 - .50
Bone (see Black, bone).

THE RIGHT PACKAGE CAN HELP SALES STEP AHEAD

You're a big step ahead of competition when you package chemical products in Continental's "F" style cans.

Bright, true colors—masterfully applied by Continental lithographers—make your brand stand out on the dealer's shelves. And, of course, you can give your products no better protection than the sturdy walls of a Continental container.

These rugged, attractive cans come in every size and shape to fit your needs: ½-pint, pint, quart, ½-gallon and gallon. Take this first step to increased sales, today—check with Continental for the full story on our "F" style cans.

CONTINENTAL ALSO MAKES STEEL CONTAINERS THAT ARE TOPS FOR SHIPPING CHEMICALS IN BULK

CONTAINER	SUGGESTED USE
Open Head Pails	Adhesives
Closed Head Drums	Anti-Freeze
Utility Cans	Insecticides
50 & 65 Pound Flaring pails	Soap Powder
Small Flaring pails	Dry Chemicals

CONTINENTAL CAN COMPANY

CONTINENTAL CAN BUILDING
100 East 42nd Street New York 17, N. Y.

EASTERN DIVISION: 100 E. 42nd ST., NEW YORK 17 • CENTRAL DIVISION: 135 SO. LA SALLE ST., CHICAGO 3 • PACIFIC DIVISION: RUSS BUILDING, SAN FRANCISCO 4

Charcoal, Hardwood—Corrosive Sublimate

Charcoal, hardwood, briquets, bgs., c.l., works	ton	70.00	-80.00
l.c.l., works	ton	75.00	-85.00
bulk, c.l., works	ton	34.00	- —
granular, bgs., c.l., works	ton	65.00	- —
l.c.l., works	ton	65.00	- —
lump bulk, c.l., works	ton	46.00	- —
Pinewood, gran., powd., bgs., c.l., works, South	ton	43.50	- —
l.c.l., works	ton	43 50	-53.50
lump bgs., c.l., works, South	ton	40.00	- —
l.c.l., works, South	ton	50.00	-60.00
bulk, c.l., works, South	ton	33.50	- —
Chestnut extract, 25% tannin, bbls., c.l., works	lb.	.0510-	—
l.c.l., works	lb.	.0543-	—
tanks, works	lb.	.0425-	.0440
powd., 60% tannin, bgs., extra, c.l., works	lb.	.1092-	—
l.c.l., works	lb.	.1165-	—
Chloral, tech., 94% min., dms., c.l., works	lb.	.23	- —
l.c.l., works	lb.	.24	- —
tanks, works	lb.	.21	- —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots	lb	1.30	- —
500-lb. lots	lb.	1.33	- —
100-lbs. or less	lb.	1.35	- 1.40
Chloramine T, NF, bbls., works	lb.	.75	- 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld	lb.	.65	- —
l.c.l., frt. alld	lb.	.66	- .73
refined, dms., c.l., frt. alld	lb.	.75	- —
l.c.l., frt. alld	lb.	.76	- .83
Chlorinated paraffin, 42% dms., frt. alld., c.l.	lb.	.14	- .16
l.c.l.	lb.	.14¾	- .17
Chlorinated paraffin, 70%, dms., c.l., same basis	lb.	.18	- —
l.c.l., same basis	lb.	.19	- —
Rubber, 5, 10, 20 cps., ctns., c.l., works	lb.	.58	- —
l.c.l., works	lb.	.59	- .60
125, 1,000 cps., ctns., c.l., works.	lb.	.60	- —
l.c.l., works	lb.	.61	- .62
Chlorine, liquid, cyls., c.l., N.Y.	lb.	.08¾	- —
l.c.l., N.Y., stock points	lb.	.10¼	- —
tanks, single units, works, frt. equald	100 lbs.	2.70	- —
W. of Rockies	100 lbs.	2.82½	- —
multiple units, 3 cars, works, frt. equald	100 lbs.	3.10	- —
2 cars, same basis	100 lbs.	3.80	- —
1 car, same basis	100 lbs.	4.46	- —
Chloroform, tech., dms., c.l., dlvd. E	lb.	.18	- .182
l.c.l., same basis	lb.	.192	- .20
tanks, same basis	lb.	.17	- .171
USP, dms.	lb.	.30	- .35
Chloro(4)-2-Toluidine, bbls	lb	1.38	- —
Chlorophyll, oil soluble, 4% not fixed, tins, pails, works	lb.	3.75	- 4.50
copper fixed, 6%, tins, pails, works	lb.	6.00	- 6.50
Sodium-copper, aqueous solut., 4%, 55 gal. dms., works	lb.	3.25	- —
8%, 55 gal. dms., works.	lb.	6.00	- —
15% 55 gal., dms., works.	lb.	12.00	- —
concentrated, 50%, d m s., works, 100% basis	lb.	80.00	-90.00
75%, dms., works, 100% basis	lb.	80.00	-90.00
90%, dms., works, 100% basis	lb.	80.00	-90.00
Chloropicrin, com'l, bots.	lb.	1.50	- —
cyls., 180 lbs., frt. alld	lb.	.95	- —
100 lbs., same basis	lb.	.97	- —
25 lbs., same basis	lb.	1.22	- —
Cholesterol, USP, fib. dms., 100-lb. lots	lb.	8.80	- 9.50
5-lb. pkg.	lb.	9.00	-10.50
1-lb. pkg.	lb.	9.50	-10.50
Choline bitartrate, fib. dms., frt. adjusted	lb.	1.70	- 1.95
Chloride, fib dms., same basis	lb.	1.70	- 1.95
Dihydrogen citrate, fib. dms., same basis	lb.	1.70	- 1.95
Chromium acetate, powd., 72% Cr., bbls., works	lb.	No stocks.	
solut., 7½% bbls., works	lb.	.08½	- —
cbys.	lb.	.10¼	- —
8½%, bbls., works	lb.	.09	- —
cbys.	lb.	.10¾	- —
Fluoride, bbls., works	lb.	.44½	- —
Green (see Green, chromium oxide).			
Oleate, solid, bbls.	lb.	.49	- —
Trioxide, NF, bots	lb.	.82	- .89
Yellow (see Yellow, chrome).			
Chrysarobin, USP, bots	lb.	6.50	- 8.00
Cinchona bark, NF, red, broken, bgs	lb.	.28	- .30
yellow, broken, bgs	lb.	.28	- .30
Cinchonidine, cryst., cns., 100 ozs.	oz.	.71	- .72
Sulphate, cns., 100 ozs	oz.	.37	- .40½
Cinchonine cryst., cns., 100 ozs.	oz.	.37	- —
Sulphate, NF, cns., 100 ozs.	oz.	.30	- —
Cinchophen, NF, heavy density, dms., frt. adjusted	lb.	3.70	- 4.05
standard density, dms., same basis	lb.	3.50	- 3.85
Cinchophen-sodium, dms., frt. adjusted	lb	4.50	- 4.85
Cinnamic alcohol (see Alcohol cinnamic)			
Aldehyde, NF, cns., dms	lb.	1.05	- 1.30
Cinnamon, Ceylon, No. 2, bls.	lb.	.25	- .26
Citral, bots., cns.	lb.	4.25	- 4.75
Citronellal, bots., dms.	lb.	2.35	- 3.05
Citronellol, bots., dms.	lb.	2.45	- 2.90
Civet, artificial, bots.	lb.	13.75	-15.00
natural, bots.	oz.	3.50	- 7.00
Clay, ball, dom., crushed, bulk, Tennessee	ton.	10.00	-12.00
airfloated, bgs., c.l., Tennessee.	ton.	19.50	- —
purified, bgs., c.l., Tennessee.	ton.	20.50	- —
imported, lump, bulk, Atlantic port, long	ton.	27.00	-30.00
airfloated, bgs., c.l., Atlantic port, long	ton.	43.00	-45.00
pulverized, bgs., l.c.l., all ports	ton.	55 00	- —
97%, 200 mesh, bgs., c.l. Georgia	ton.	54.00	-56.00
China, dom., dry-grd., air-float, 99%, 300 mesh bgs., c.l., works	ton.	11.50	-14.50
l.c.l., works	ton.	35.30	- —
bulk, c.l., works	ton.	8.50	-11.50
200 mesh, bgs., c.l., works	ton.	13.50	-17.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross	ton.	20.00	-40.00
powd., bgs., c.l., ex dock net	ton.	50.00	- —
l.c.l., ex whse. net	ton.	60.00	-65.00
Clove, Madagascar, bls.	lb.	.80	- .82
Zanzibar, bls.	lb.	.83	- .85
Clover tops, red, bgs.	lb.	70	- .75
CMC, purified, high vis., (see Gum, cellulose), standard low vis., bgs., 23,000 lbs. or over, works, frt. alld.	lb.	.60	- —
smaller lots, same basis	lb.	.62	- —
medium vis., bgs., 23,000 lbs. or over, works frt. alld	lb.	.57	- —
smaller lots, same basis	lb.	.59	- —
technical, high vis., 58% purity, bgs., 20,000 lbs or more, dlvd. E., 100% basis	lb.	.56	- —
2,000 to 20,000 lbs., dlvd. E.	lb.	.58	- —
less than 2,000 lbs., dlvd. E	lb.	.62	- —
low vis., 62% purity, bgs. or fib. dms., c.l., dlvd. E., 100% basis	lb.	.46	- .47
l.c.l., dlvd. E	lb.	.48	- .49
58% purity, bgs., c.l., dlvd. E., net weight basis	lb.	.34	- —
l.c.l., dlvd. E	lb.	.36	- —
47½% purity, bgs., c.l., dlvd., E., 100% basis	lb.	.46	- —
l.c.l., dlvd. E	lb.	.48	- —
36½% purity, bgs., c.l., dlvd. E., net weight basis	lb.	.18½	- —
l.c.l., dlvd. E	lb.	.20	- —

Technical grades of CMC West of the Rocky Mountains are quoted f.o.b. works at 1c. per pound below the above delivered prices.

Coaltar, coal gas, water gas, crude, resale dms., c.l., ex-whse.	gal.	.24	- .27½
l.c.l., ex-whse	gal.	.26	- .28½
tanks, ex-whse	gal.	.14	- .15
refd., resale, dms., c.l., ex-whse	gal.	.25	- .28½
l.c.l., ex-whse	gal.	.27	- .29½
tanks, ex-whse	gal.	.15	- .16
Cobalt acetate, 23.7% bbls., dlvd	lb.	1.14¾	- —
Carbonate 48%, powd., bgs., works	lb.	1.92¼	- —
Chloride, 24.2% Co., kgs., works,	lb.	1.10½	- —
Hydrate, 60-61% Co., bbls	lb.	2.52	- —
Linoleate fused, 8½% Co., dms.	lb.	.64½	- —
liquid, 6% Co., dms	lb.	.53¼	- —
Metal, 97.99%, kgs., ex-whse	lb.	2.40	- —
Naphthenate, liq., 6% Co., dms.,	lb.	.42¾	- —
Nitrate, 20.1% Co., bbls	lb.	.99¼	- —
Oxide, black, 70-71% Co., kgs	lb.	1.76	- —
Phosphate, powdered, 32.1% Co., kgs. dlvd	lb.	1.57¾	- —
Resinate, fused, 3% Co., dms	lb.	.27	- —
Sulphate, cryst., 21% Co., dms., works	lb.	.81¾	- —
monohydrated, 33% Co., dms. works	lb.	1.28½	- —
Cocaine, USP, cns., 100-oz. lots	oz.	15.00	- —
Hydrochloride, cns. 100-oz. lots	oz.	11.75	- —
Cochineal, USP, gray, bgs	lb.	.68	- .90
Cocillana bark, bgs	lb.	.15	- .17
Cocoa butter, bgs.	lb.	.77	- —
Codeine, NF, cns., 100-oz. lots	oz.	13.25	- —
Hydrochloride, cns., 100-oz. lots.	oz.	11.75	- —
Phosphate, USP, cns., 100-oz. lots.	oz.	10.25	- —
Sulphate, USP, cns., 100-oz. lots.	oz.	10.75	- —
Codliver oil (see Oil, codliver).			
Cohosh black root, bls	lb.	.22	- .25
Blue root, bls	lb.	17	- .18
Colchicine, USP, bots., cns.	oz.	74.50	-77.50
Colchicum root, bls.	lb.	.42	- .52
Seed, bgs	lb.	.80	- 1.10
Collodion, USP, dms.	lb.	.32½	- —
Flexible, USP, dms.	lb.	.34	- —
Colocynth, pulp, bls.	lb.	.30	- .35
Colombo, root, bls	lb.	.11	- .14
Coltsfoot leaves, bgs	lb.	.25	- .30
Condurango bark, bgs	lb.	.17	- .18
Copaiba balsam, cns., dms.	lb.	1.55	- 1.65
Copper acetate, bbls., c.l., works	lb.	.34¾	- —
l.c.l., works	lb.	.35¾	- —
Carbonate, 55%, bgs., works	lb.	.22	- .23½
Chloride, anhyd., bbls., works	lb.	.24½	- —
crystals, bbls., works	lb.	.22¾	- —
Citrate, USP 5-lb. bots	lb.	2.40	- —
Cyanide, tech., bbls	lb.	.613	- .633
Gluconate, cns., dms.	lb.	3.00	- 3.24
Hydrate, dms., frt. alld. E. Miss.	lb.	.36	- .36½
Metal, electrolytic	lb.	.24½	- .27½
Naphthenate, liquid, 8% Cu, dms., frt. alld	lb.	.24¾	- —
Nitrate, tech., cryst., bbls., works.	lb.	.25¼	- —
Oleate, solid, 9% Cu, dms., works,	lb.	.45	- —
Oxide, black, bbls., works	lb.	.39	- .40
red, com'l, bbls., c.l., works.	lb.	.43¼	- —
l.c.l., works	lb.	.43¾	- —
Oxychloride-sulphate, bgs., frt. alld	lb.	.24¼	Nom.
Quinolinalate, fib. dms.	lb	4.25	4.50
Resinate, precip., dms., frt. alld	lb.	.27½	- —
Stearate, ton lots, works	lb.	.38½	- .39½
less ton lots, works	lb.	.40½	- —
Sulphate, cryst., 99%, bgs., c.l., works	100 lbs.	8.95	- 9.95
l.c.l.	100 lbs	9.20	- 10.95
CP, cryst., gran., bbls., works.	lb.	.1615	- —
monohydrated, 35%, dms., c.l., works	100 lbs.	14.95	-15.50
tribasic, dealers, bgs., c.l., works. frt. alld	100 lbs.	25.60	- —
l.c.l., works	100 lbs.	27.10	- —
USP, gran., cryst., dms	lb.	.1615	- .2500
Undecylenate, dms.	lb.	2.90	- 3.00
Copperas, gran., bgs., c.l., works	ton.	28.50	- —
l.c.l., dlvd. Metro area	100 lbs.	3.00	- —
bbls., c.l., works	ton.	34.00	- —
bulk c.l., works	ton.	21.00	- —
Copra, c.l.f. Atlantic, Gulf ports	ton.	130.00	- —
Pacific ports	ton.	125.00	- —
Coriander seed, Argentine, bgs.	lb.	.08½	- .09
Czech, o.s.	lb.	.08½	- .09
Moroccan, bgs	lb.	.08½	- .09
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min.	100 lbs	7.29	- —
Syrup, 42°, dms., c.l.	100 lbs.	7.31	- —
l.c.l.	100 lbs.	7.46	- —
Cornsilk bls.	lb.	.12	- .14
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more	lb	3.68	- —
gran. powd., dms., 50 lbs. or more	lb	3.53	- —

SODIUM BICHROMATE

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SODIUM CHROMATE

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POTASSIUM BICHROMATE

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CHROMIC ACID

Nowadays, work boats, fishing craft, tug boats and tow boats are powered by tough, efficient diesel engines. Greatly increased life is obtained from these diesels by using chromium plated piston rings or cylinder walls. A porous surface, obtained by preliminary mechanical roughening or electrolytic etching, decreases sliding friction and facilitates distribution of lubricating oil. Thanks to chromium, cylinder wear may be reduced to as little as one-twentieth of that formerly observed, while ring wear may be cut to one-quarter.

Corrosive wear in marine diesels is also reduced by chromium chemicals which establish a passive condition between engine jackets and cooling water. Only 2000 ppm of sodium chromate, constantly maintained, is sufficient to inhibit corrosion in most marine power plants. Submarines and certain other naval vessels provide an additional factor of safety by employing 5000 ppm.

Diesel engines illustrate one of the many fields in which chromium chemicals find important applications. Write for information about the use in which you are interested.

MUTUAL CHEMICAL CO. OF AMERICA — MUTUAL — NEW YORK N.Y. — SINCE 1845 — REG. U. S. PAT. OFF.

Mutual Chemical Company of America

270 MADISON AVENUE, NEW YORK 16, N. Y.

Plants: BALTIMORE — JERSEY CITY

Cottonroot, bark, bls ..... lb. .26 - .38
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.75 - —
Meal, 41% protein, sacked, Memphis ..ton.85.00 - —
Coumarin, cryst., NF, cns..... lb. 2.94 - 3.15
powd., cans ..... lb. 3.20 - 3.25
Cramp bark, NF, bls ..... lb .80 - .90
Craneshill root, bls ..... lb. .55 - .60
Cream of tartar, N.F., dom., gran. or powd., bbls., 5,000 lbs. one shipment lb. .40½ - —
smaller lots, bbls., kgs lb. .41 - .42
imported, kgs..... lb. .31 - .32
Creosote, carbonate, NF, bots., cbys. lb. 2.80 - 2.90
Coaltar, crude, tanks, works, frt. adjusted ..gal. .20 - —
refined, dms., c.l., works gal. .35 - —
l.c.l. same basis ..... gal. .41 - —
tanks, same basis ..... gal. .27 - —
solution, 80%, tanks, works gal. .188 - —
Wood, beechwood, cbys., dms. lb. 1.35 - 1.40
Hardwood, bots., cbys..... lb. 1.05 - 1.10
Pinewood, dms ..... gal. .31 - .32
Cresol tech., dry, above 207°C, non-ret. dms., c.l., frt. equald. lb. .158 - —
l.c.l. same basis..... lb. .161 - —
ret. dms., c.l., same basis. lb. .155 - —
l.c.l. same basis..... lb. .16 - —
tanks, same basis..... lb. .145 - —
USP, non-ret. dms., c.l., same basis lb. .168 - —
l.c.l. same basis ..... lb. .171 - —
ret. dms. c.l., same basis... lb. .16½ - —
l.c.l., same basis ..... lb. .17 - —
tanks, same basis..... lb. .155 - —
Crotonaldehyde, 91-93%, l.c.l., works lb. .20 - .25
Cryolite, nat., industrial, bgs., c.l., works..100 lbs.10.50 - —
l.c.l., works.....100 lbs.11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd..100 lbs.15.25 - —
l.c.l., dlvd. .....100 lbs.16.25 - —
Cube root, powd., 5%, rotenone, bgs., works lb. .25 - .26
Cubeb berries, XX NF, bgs..... lb. .45 - .52
powd., cs ..... lb. .55 - .60
Culvers root, bbls..... lb. .65 - .75
Cumene, dms., c.l., works..... lb. .12 - —
l.c.l., works ..... lb. .14 - —
tanks, works ..... lb. .11 - —
Cumin seed, Indian, bgs..... lb. .18 - .18¼
Iranian, bgs ..... lb. .18 - .18½
Moroccan, bgs..... lb. .19 - .19½
Syrian, bgs..... lb. .17¾ - .18
Cutch extract 55% tannin, bgs., ex dock, duty extra lb. .08 - —
Cyanamide fertilizer mixing grades, 20.6% N, gran. bgs., Niagara Falls, Ont., contract ton.72.00 - —
pulv. 21% N, bgs., works, unit ton 3.40 - —
Cyclohexane, tech., 95%, dms., c.l., dlvd..lb. .11 - —
l.c.l., dlvd..... lb. .11¾ - —
tanks, dlvd..... lb. .09¼ - —
Cyclohexanol, tech., dms., c.l., works lb. .37¾ - —
l.c.l., works ..... lb. .38¼ - —
tanks works ..... lb. .36¼ - —
Cyclohexanone, tech., dms., c.l., lb. .26½ - .30
l.c.l., works ..... lb. .27 - .31
tanks, works ..... lb. .25 - .29
Cyclohexylamine, dms., c.l., works. lb. .41½ - —
l.c.l. works..... lb. .42½ - —
tanks, works ..... lb. .40 - —
Cyclopropane CP, 2 lb. cyls., works, cyl.48.00 - —
6 oz. cyls., works..... cyl.12.00 - —
USP, hospitals, cyls., 40 gal. lots. gal. .38 - —
100-gal. lots ..... gal. .37 - —
200-gal. lots ..... gal. .36 - —

D

2, 4-D bbls., c.l., works frt. equald. lb. .61 - —
l.c.l., same basis..... lb. .67 - —
2,4-D isopropyl ester, dms., c.l., works lb. .67 - —
l.c.l., works ..... lb. .72 - .74
Damiana leaves, bls..... lb. .28 - .30
Dandelion root, bls..... lb. .45 - .50
DDD, tech. fine grd. fib. dms., c.l., works lb. .60 - —
l.c.l., works ..... lb. .61 - —
DDT, fiber dms., c.l., works, frt. equald..lb. .48 - .50
smaller lots, same basis...lb. .50 - .53
Decanol, normal, tech., dms., c.l., dlvd..lb. .419 - —
l.c.l. dlvd ..... lb. .439 - —
tanks, dlvd..... lb. .394 - —
Deertongue leaves, bls ..... lb. .37 - .40
Defluorinated phosphate, 13% P. paper bgs., works ...ton.49.25 - —
18½% P, paper bgs., works ton.62.75 -63.75
Rock, 14½% P, paper bgs., works ..ton.50.00 - —
Degras, common, bbls ..... lb. .13½ - .14
Neutral, less 2% ffa., bbls..... lb. .21 - .30
over 2% ffa., bbls ..... lb. .20 - .29
Derris root, 5% rotenone powd., bbls lb. .32 - .35
Desoxyephedrine hydrochloride, dextro, bots lb.30.00 -34.00
dextro-laevo, bots ..... lb. 7.50 - —
Dextrin, corn, gum, paper bgs., c.l., N. Y. 100 lbs. 8.96 - —
l.c.l. .....100 lbs. 9.11 - —
canary, paper bgs., c.l. ..100 lbs. 8.70 - —
l.c.l. .....100 lbs. 8.85 - —
dark, paper bgs., c.l.....100 lbs. 8.80 - —
l.c.l. .....100 lbs. 8.95 - —
white, paper bgs., c.l...100 lbs. 8.54 - —
l.c.l. .....100 lbs. 8.69 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs higher.
Potato, bgs ..... lb. .09 - .09¼
Dextrose, USP, dms..... lb. .17¾ - —
Diacetone (see Alconol, diacetone).
Diacetyl, flavor grade, bots..... lb. 4.50 - 4.60
laboratory, grade, bots. 100 grams 4.50 - —
tech., bots., works ..... lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., c.l., dlvd, E... lb. No prices.
l.c.l., dlvd, E..... lb. No prices.
tanks, dlvd, E..... lb. No prices.
Dianisidin, dms ..... lb. 1.90 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast..ton.52.00 -55.00
California .....ton.42.00 -45.00
l.c.l., ex whse.....ton.85.00 -90.00
purified, bgs., c.l., Atl....ton.65.00 - —
California .....ton.53.00 - —
l.c.l., ex whse .....ton.95.00 -100.00
Atlantic coast.....ton.95.00 -100.00
Mexican, white bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast.. lb. .06 - —
Dibenzyl sebacate, dms., c.l., works, lb. .92¾ - —
l.c.l., works..... lb. .93¾ - —
tanks, works..... lb. .91 - —
Dibutyl phthalate, dms., c.l., dlvd., E..lb. .37¾ - —
l.c.l., same basis..... lb. .38¾ - —
tanks, same basis..... lb. .36 - —
Sebacate, CP, dms., c.l., works, lb. .92 - —
l.c.l., works..... lb. .93 - —
tanks, works..... lb. .90¼ - —
tech., dms., c.l., works..... lb. .90 - —
l.c.l., works..... lb. .91 - —
tanks, works..... lb. .88¼ - —
Tartarate, dms., works, frt. alld.lb. .79 - —
Dibutylamine, dms., c.l., frt. alld..lb. .54¾ - —
l.c.l., frt. alld..... lb. .55¾ - —
tanks, frt, alld..... lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .41½ - —
l.c.l., dlvd..... lb. .42½ - —
tanks, dlvd..... lb. .39¾ - —
Dicapryl sebacate, dms., c.l., works. lb. .78½ - —
l.c.l., works..... lb. .79½ - —
tanks, works..... lb. .76¾ - —
Dichloroanilin, dms., works..... lb. .75 - .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .06 - —
l.c.l., works ..... lb. .07 - —
tanks, works ..... lb. .04 - —
Dicyclohexylamine, dms., c.l., works. lb. .46 - —
l.c.l., works ..... lb. .46¾ - —
tanks, works ..... lb. .44½ - —
Dicyclohexylphthalate, fib dms., c.l., works lb. .60 - —
l.c.l., same basis..... lb. .61 - —
Dieldrin, dms., frt. alld..... lb. 2.60 - —
l.c.l., frt. alld ..... lb. 3.04 - —
Diethanolamine, dms., c.l., frt. alld., E lb. .29¼ - —
l.c.l., same basis ..... lb. .30¼ - —
tanks, same basis ..... lb. .27½ - —
Diethyl carbonate, dms., c.l., frt. alld lb. .46¾ - —
l.c.l., same basis ..... lb. .47¾ - —
tanks, same basis ..... lb. .45 - —
Maleate, dms., c.l., dlvd ..... lb. .50 - —
l.c.l., dlvd ..... lb. .48¼ - —
tanks, dlvd ..... lb. .48½ - —
Oxalate, dms. c.l., frt. alld .. lb. .41¾ - —
l.c.l. same basis ..... lb. .42¾ - —
tanks, same basis ..... lb. .40 - —
Phthalate, dms., c.l., dlvd..... lb. .32¾ - —
l.c.l., dlvd..... lb. .33¾ - —
tanks, dlvl..... lb. .31 - —
Diethyl sulphate, dms., c.l., works. lb. .18¾ - —
l.c.l., works ..... lb. .19¼ - —
tanks, works ..... lb. .17 - —
Dichlorodiphenyldichloroethane (see DDD)
Diethylamine, dms., c.l., frt. alld. E lb. .62¼ - —
l.c.l., same basis..... lb. .63¼ - —
tanks, same basis..... lb. .60½ - —
Diethylanilin, dms..... lb. .48 - —
Diethyleneglycol, dms, c.l., frt. alld. E lb. .20¼ - —
l.c.l., same basis..... lb. .21¼ - —
tanks, same basis..... lb. .18½ - —
Boriborate, dms., t.c.l ..... lb. .30½ - —
Diethylether, dms., c.l., works lb. .46½ - —
l.c.l., works ..... lb. .47 - —
Monobutylether, dms., c.l., works. lb. .28¾ - —
l.c.l., works ..... lb. .29¼ - —
tanks, works..... lb. .27 - —
Monobutylether acetate, dms., c.l., works lb. .30 - —
l.c.l., works ..... lb. .30½ - —
Monoethylether, dms., c.l., works lb. .20¼ - —
l.c.l., works..... lb. .20¾ - —
tanks, works..... lb. .19 - —
Monoethylether acetate, dms., c.l., works lb. .26¾ - —
l.c.l., works ..... lb. .27¼ - —
Monomethylether, dms., c.l., works. lb. .24¾ - —
l.c.l., works..... lb. .25¼ - —
tanks, works..... lb. .23½ - —
Diethylenetriamine, dms., c.l., dlvd. E lb. .43 - —
l.c.l., same basis..... lb. .44 - —
tanks, same basis..... lb. .41½ - —
Diethylethanolamine, dms., c.l., works, frt. alld. lb. .67½ - —
l.c.l., same basis..... lb. .68½ - —
tanks, same basis ..... lb. .65¾ - —
Diethylstilbestrol, USP, bots., 10-kilo lots. kilo.115.00 -150.00
1 kilo lot..... kilo.135.00 -150.00
Digitalis, leaves, bls..... lb. 1.10 - 1.20
Digitoxin, USP, bots..... gram. 7.75 - 8.50
Digiycol, laurate, dms ..... lb. .32½ - .37
Oleate, dms ..... lb. .32 - —
Stearate, dms..... lb. .25 - .27
Dihexyl sebacate, dms., c.l., works. lb. .76½ - —
l.c.l., works..... lb. .77½ - —
tanks, works..... lb. .74¾ - —
Dihydrostreptomycin hydrochloride and sulphate, bulk, 50 kilos or more gram. .324 - —
unlabeled 1-gram vials, 1 to 500,000 vials vial. .384 - —
5-gram vials, 1 to 500,000 vials vial. 1.766 - —
Dihydroxydichlorodiphenylmethane, pure, dms lb. 2.80 - 3.00
tech., dms..... lb. 1.15 - 1.25
Di-isobutyl ketone, dms., c.l., dlvd.lb. .17¾ - —
l.c.l., dlvd. ..... lb. .18¾ - —
tanks, dlvd. ..... lb. .16 - —
Di-isobutylene, dms., c.l., works lb. .09¼ - —
l.c.l., works ..... lb. .10 - —
tanks, works ..... lb. .07½ - —
Di-iso-octyl phthalate, dms., c.l., dlvd..lb. .41¾ - —
l.c.l., same basis..... lb. .42¾ - —
tanks, same basis..... lb. .40 - —
Di-isopropylamine, dms., c.l., works, frt. alld., E. of Miss..... lb. .49¾ - —
l.c.l., same basis ..... lb. .50¾ - —
tanks, same basis ..... lb. .48 - —
Dillseed, dewhiskered, bgs ..... lb. .12 - .13¼

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Dimethyl Anthranilate—Dyes, Coaltar, for Stains, Oil-Soluble

Dimethyl anthranilate, cns	lb.	5.50	5.90
Chloroacetal, dms, c.l., works	lb.	.53	—
l.c.l., works	lb.	.55	—
tanks, works	lb.	.51	—
Hydroquinone, dms	lb.	2.25	2.75
Phthalate, dms., c.l., dlvd	lb.	.29¼	.29¾
l.c.l. dlvd	lb.	.30¼	.30¾
tanks dlvd	lb.	.27½	.28
Sebacate, dms., c.l., works	lb.	1.31¾	—
l.c.l., works	lb.	1.32¾	—
tanks, works	lb.	1.30	—
Sulphate, 55-gal. ret. dms., c.l., works	lb.	.15	—
l.c.l. works	lb.	.16	—
10-gal ret dms., works	lb.	.16½	—
Dimethylamine 25-40%, dms., c.l., works, basis 100%	lb.	.37	.38
l.c.l works basis 100%	lb.	.37½	.38½
tanks, works, basis 100%	lb.	.32	—
Dimethylanilin, dms., c.l., frt. alld.	lb.	.26	—
l.c.l. frt. alld	lb.	.27	—
tanks, frt alld	lb.	.25	—
Dimethylethanolamine, dms., c.l., dlvd	lb.	1.43	—
l.c.l., dlvd	lb.	1.45	—
tanks dlvd.	lb.	1.40	—
Dinitroanilin dms. frt equald	lb.	.57	—
Dinitrobenzene, crude dms	lb.	.20	—
purified, dms.	lb.	.22	—
Dinitrochlorobenzene, dms., c.l., frt. alld. E	lb.	.15¼	.18
l.c.l., frt. alld E	lb.	.15¾	.19
tanks frt alld. E	lb.	.15	.17
Dinitrophenol, bbls	lb.	.34	—
Dinitrotoluene oily, dms.	lb.	.10	—
refd., dms.	lb.	.21	—
Dioctyl adipate, dms., c.l., works	lb.	.47½	—
l.c.l., works	lb.	.48½	—
tanks, works	lb.	.45¾	—
Phthalate, dms., c.l., frt. alld.	lb.	.41¾	—
l.c.l., frt. alld	lb.	.42¾	—
tanks, frt. alld	lb.	.40	—
Diorthotolylguanidin, dms., ton lots, dlvd	lb.	.52	—
smaller lots, dlvd	lb.	.53	—
Dioxane, dms., c.l., works	lb.	.28¾	—
l.c.l., same basis	lb.	.29¼	—
tanks, same basis	lb.	.27	—
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., c.l., works,	lb.	.34	—
l.c.l., works	lb.	.37	—
Dipentene, dest-dist., dms., extra, c.l., works	gal.	.49	—
l.c.l., works	gal.	.50	—
whse.	gal.	.68	—
steam-dist., dms., c.l., works, south	gal.	.60	—
l.c.l., works South	gal.	.69	—
dlvd., N Y	lb.	.83	—
Diphenyl, bbls, c.l., works	lb.	.15	—
l.c.l., works	lb.	.16	.20
Oxide, perfume grade, cns	lb.	.54	.91
Phthalate, dms., c.l., works	lb.	.51¾	—
l.c.l., same basis	lb.	.53¾	—
Diphenylamine, refined, gran., bbls., c.l., works	lb.	.28	—
l.c.l., works	lb.	.30	—
tankcars, works	lb.	.25	—
tech., tankcars, works	lb.	.24	—
Diphenylguanidin dms., ton lots	lb.	.43	—
smaller lots	lb.	.44	—
Diphenylhydantoin-sodium, USP, dms.	lb.	5.30	5.60
Dipropyleneglycol, dms., c.l., frt. alld	lb.	.16¾	.17
l.c.l., same basis	lb.	.17¾	.18
tanks, same basis	lb.	.15	—
Methylether, dms, c.l., frt. equald.	lb.	.18¾	—
l.c.l., same basis	lb.	.20¾	—
tanks, same basis	lb.	.18¼	—
Di-tertiary-butylmetacresol, dms., c.l., works	lb.	.31	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Di-tertiary butylparacresol, dms., c.l., works	lb.	.91	—
l.c.l., works	lb.	.95	—
Divi-divi 45% annin bgs, bls., c.l., U.S. ports, ex dock	ton.	70.00	—
Divinylbenzene 20-25%, dms., c.l., works	lb.	.20	—
l.c.l., works	lb.	.21	—
tanks, works	lb.	.19	—
40-50%, basis 100%, dms., c.l., works	lb.	1.17	—
l.c.l., works	lb.	1.27	—
Dodecylbenzene, dms., c.l., works	lb.	.16	—
l.c.l., works	lb.	.17	—
tanks, works	lb.	.13½	—
Doggrass root, dom., cut, bls	lb.	.26	.28
imp., cut, bls	lb.	.28	.35
Dogwood bark, Jamaica, bls	lb.	.11	.13
Dragon's blood, drops, cs	lb.	.45	.47
mass, cs	lb.	.90	1.00
reeds, cs	lb.	1.60	1.65

Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb and 1-lb. lots dlvd:—

Blue, FD&C, No. 1, cns	lb.	17.00	-17.60
No. 2, cns	lb.	17.00	-17.60

Dyes, coaltar, certified, colors for food, drugs and cosmetics, 5-lb and 1-lb. lots, dlvd.:—

Green, FD&C, No. 1, cns	lb.	17.00	-17.60
No. 2, cns	lb.	22.20	-22.85
No. 3, cns	lb.	35.25	-35.90
Orange, FD&C, No. 1, cns	lb.	3.65	- 3.75
No. 2, cns	lb.	4.65	- 4.75
Red, FD&C, No. 2, cns	lb.	7.55	- 7.85
No. 2, cns	lb.	4.00	- 4.10
No. 3, cns	lb.	22.20	-22.85
No. 4, cns	lb.	7.20	- 7.50
No. 32, cns	lb.	5.30	- 5.40
Violet, FD&C, No. 1, cns	lb.	17.00	-17.60
Yellow, FD&C, No. 1, cns	lb.	10.50	-11.05
No. 3, cns	lb.	3.30	- 3.40
No. 4, cns	lb.	3.30	- 3.40
No. 5, cns	lb.	4.00	- 4.10
No. 6, cns	lb.	4.00	- 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. tots, works, 25-50 lb lots, dlvd.:—

Black, D&C, No. 1, cns	lb.	10.95	—
Blue, D&C, No. 4, cns	lb.	13.55	—
Brown, D&C, No. 1, cns	lb.	16.10	—
Green, D&C, No. 5, cns	lb.	16.10	—
No. 6, cns	lb.	16.10	—
No. 7, cns	lb.	14.80	—
Orange, D&C, No. 3, cns	lb.	10.95	—
No. 4, cns	lb.	20.05	—
No. 5, cns	lb	5.70	—
No. 10, cns	lb.	20.70	—
Red, DNC, No. 8, cns	lb.	3.75	—
No. 9, cns	lb.	3.75	—
No. 10, cns	lb.	3.00	—
No. 11, cns	lb	2.25	—
No. 12, cns	lb.	3.00	—
No. 17, cns	lb.	10.95	—
No. 18, cns	lb.	24.00	—
No. 19, cns	lb.	20.05	—
No. 21, cns	lb	4.70	—
No. 22, cns	lb.	10.95	—
No. 28, cns	lb.	24.65	—
No. 33 cns	lb.	17.45	—
Violet, D&C, No. 2, cns	lb.	16.10	—
Yellow, D&C, No. 7, cns	lb.	10.95	—
No. 8 cns	lb.	10.95	—
No. 10, cns	lb.	13.50	—
No. 11, cns	lb.	13.50	—

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—

Blue, Ext., D&C, No. 1, cns	lb.	16.10	—
Green, Ext., D&C, No. 1, cns	lb.	16.10	—
Red, Ext., D&C, No. 1, cns	lb.	13.50	—
Yellow, Ext., D&C, No. 1, cns	lb.	10.95	—
20 Orange AO	lb.	.84	—
27 Fast light orange 2G	lb.	.78	—
31 Phloxine 2G	lb.	.64	—
36 Alizarine yellow 2G	lb.	.83	—
40 Orange B extra, conc	lb.	1.06	—
57 Fuchsine 6B	lb.	.57	—
79 Scarlet 2R	lb.	.74	—
151 Orange Y	lb.	.47	—
161 Orange RR	lb.	.55	—
176 Fast red A, conc	lb.	.90	—
179 Azo rubine XX, conc	lb	1.04	—
180 Blue F4B	lb.	.92	—
185 Brilliant scarlet 3RN, conc.	lb.	.93	—
202 Chrome blue black, conc	lb.	.86	—
203 Chrome black T	lb.	.71	—
208 Fast blue SR	lb.	.91	—
216 Chrome red B	lb.	.84	—
234 Resorcin brown	lb.	.89	—
246 Blue black, extra, conc	lb.	.86	—
275 Milling red 3R, conc	lb	2.63	—
289 Navy blue 3R, conc., 125%	lb.	1.09	—
299 Black F, conc	lb.	1.40	—
304 Neutral black 2B, conc., 200%	lb.	2.01	—
326 Fast scarlet 4BNC	lb.	1.64	—
332 Bismarck brown RX, conc.	lb.	.86	—
365 Brilliant yellow, conc	lb	2.34	—
382 Scarlet B	lb	1.65	—
401 Diazo black, BHD	lb.	.63	—
406 Blue 2B, extra, conc	lb.	1.07	—
419 Diamine fast red FC	lb.	1.12	—
420 Diamine brown M	lb.	.90	—
448 Benzo purpurine 4B, conc.	lb.	1.18	—
518 Diamine sky blue FF, extra, conc., 150%	lb.	2.25	—
561 Trisulphen brown BCW, conc	lb.	2.63	—
581 Direct black E, double	lb.	.89	—
593 Diamine green BXN, conc. 150%	lb.	.97	—
598 Congo brown GG, conc. 150%	lb.	1.46	—
620 Stilbene yellow G, conc	lb.	.92	—
639 Xylene light yellow GX	lb.	1.79	—
640 Tartrazine, conc	lb.	1.46	—
655 Auramine, conc	lb.	1.85	—
667 Victoria green sml. cryst.	lb.	2.10	—
662 Brilliant green cryst	lb.	2.79	—
667 Brilliant milling green B, conc	lb.	3.68	—
671 Brilliant Blue E	lb.	1.73	—
680 Methyl violet S, conc	lb.	1.10	—
681 Crystal violet powder	lb	2.15	—
698 Formyl violet S4B	lb	1.50	—
720 Chrome azure blue BR, conc. 200%	lb	3.75	—
729 Victoria blue B, conc	lb.	2.79	—
739 Green SN, extra	lb.	2.41	—
749 Rhodamine B, extra	lb.	4.33	—
814 Fast yellow NNL, conc. 175%	lb.	3.11	—
841 Safranine T, extra, conc., 125%	lb.	2.96	—
865 Nigrosine WSJ	lb.	.68	—
922 Methylene blue 2X	lb.	1.55	—
968 Sulphanthrene blue GR paste,	lb.	76	—
978 Sulphogene carbon HCF grains	lb.	.32	—
1034 Alizarin red S, conc	lb.	2.58	—
1054 Anthraquinone blue B	lb.	2.91	—
1078 Anthraquinone green G	lb.	2.72	—
1085 Alizarin blue black B	lb	2.33	—
1096 Indanthrene golden orange G, single paste	lb.	2.09	—
double paste	lb.	4.00	—
1099 Indanthrene dark blue BO, single paste	lb.	1.75	—
1101 Brilliant green B, double paste	lb.	2.36	—
1106 Indanthrene blue RS, double paste	lb.	2.57	—
1113 Indanthrene blue GCD, double paste	lb.	1.75	—
1150 Indanthrene olive R, single paste	lb.	1.10	—
1151 Indanthrene brown R, single paste	lb.	1.68	—
double paste	lb.	3.35	—
1212 Sulphanthrene red violet 2RN, single paste	lb.	1.62	—
1217 Sulphanthrene orange R, single, paste	lb.	1.65	—
p-4 Acid anthracene brown PGN,	lb.	2.31	—
p-14 Anthracene chromate brown EBN	lb.	1.31	—
p-24 Benzo fast black L, conc., 150%	lb.	2.18	—
p-80 Diazo brilliant scarlet ROA	lb	2.79	—
p-202 Zambesi black V	lb	1.06	—
p-313 Naphthol AS-SW	lb	2.42	—
p-244 Celliton scarlet B	lb.	1.31	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black blue No. 550	lb.	.81	—
Jet, No. 551	lb.	.89	—
Brown R, conc	lb.	1.72	—
Orange R, brilliant	lb.	.90	—
Red 4 B, conc	lb.	1.37	—
Yellow C	lb.	1.18	—
FN, conc	lb.	1.22	—

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International's large mining and refining facilities at Carlsbad, New Mexico, provide ample supplies of raw materials. The electrochemical manufacturing plant at Niagara Falls, New York, assures you fine quality chemicals that accurately fit your specifications.

Address inquiries to Industrial Potash Department, International Minerals & Chemical Corporation, 20 North Wacker Drive, Chicago 6; 61 Broadway, New York 6.

potash chemicals Caustic Potash—All Standard Grades • Carbonate of Potash—All Standard Grades • Potassium Chloride—Refined and Technical Grades • Potassium Sulfate • Chlorine

International MINERALS CHEMICALS

potash division
INTERNATIONAL MINERALS & CHEMICAL CORPORATION
General Offices: 20 North Wacker Drive, Chicago 6

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers' works:—

Auramine, O	lb	1.85	—
Black, basic blue	lb	1.21	—
Jet	lb	1.21	—
Blue, methylene, 2 B, conc	lb	1.55	—
Brown, Bismarck R, conc	lb	86	—
Chrysodine, R, extra	lb	60	—
Y extra	lb	64	—
Fuchsine, conc	lb	3.08	—
Green, malachite, conc	lb	2.10	—
Rhodamine B	lb	4.33	—
Safranine, Y, conc	lb	2.90	—
Violet, methyl B	lb	1.10	—

Dyes, coaltar, for stains, water-soluble, 100-lb dms., sellers works:

Azo rubine R extra, conc	lb	1.04	—
Black, acid blue B, extra	lb	86	—
Orange Acid, Y, conc	lb	47	—
Scarlet croceine, MOO	lb	1.45	—
Yellow azo- conc	lb	.90	—
Fast light, 3 G, extra	lb	2.04	—
Methanil, conc	lb	91	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb	.65	Nom.
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb	1.14	- 1.16
Chinese, spot, bbls., duty paid	lb	No stocks.	
tanners bbls	lb	.06	06½
Elder flowers, bright, bls	lb	.30	- .40
Elecampane root bls	lb	.21	.25
Elm bark grinding, bls	lb	.30	.35
powd., bbls., bxs	lb	.40	.45
select, bundles	lb	.50	.55
Emetine hydrochloride, USP, bots., oz.		38 75	-42.85
Ephedrine synthetic, USP, anhydrous bots., 100-oz. lots	oz.	.98	- 1.00
hydrous, bots., 100-oz. lots	oz.	.92	- —
Hydrochloride, tin, 100-oz. lots	oz.	.75	- —
Sulphate cryst., tins, 100-oz. lots	oz.	.72	- —
powd., tins, 100-oz. lots	oz.	.73	- —
Epichlorohydrin dms, c.l., works	lb	38¾	—
t.c.l., works	lb	39½	—
tanks, works	lb	.37	—
Epinephrine, synth., USP, bots., 100 grams	gram	.50	.60
Epsom salt, tech, bgs., c.l., works, 100 lbs		2.15	—
t.c.l., works, 100 lbs		2.90	3.15
USP, cryst., bgs., c.l., works 100 lbs		2.35	—
t.c.l., 5,000 lbs., 1 with drawal 100 lbs		3.10	—
smaller lots 100 lbs.		3.35	—
Ergosterol, unirradiated, cryst	kilo	150 00	—
Ergot, NF, dms., tin lined	lb	4.50	8.00
Eserine, bots	oz.	45.00	-50.00
Salicylate USP bots	oz.	32.50	-34.00
Sulphate, bots	oz.	34.50	-35.50
Ether acetate (see Ethyl acetate).			
Butyl, dms., c.l., works	lb	.34	—
t.c.l., works	lb	34½	—
tanks, works	lb	32½	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, purified, dms., frt. equald	lb	.17½	—
t.c.l., same basis	lb	.16	—
tanks same basis	lb	.15	—
technical, dms., c.l., works	lb	16½	—
t.c.l., works	lb	17	—
tanks works	lb	.15	—
Ethyl, absolute, ACS, dms	lb	.37	- —
anesthesia, USP, hospitals, 1-lb cns	lb	.89	—
½ lb cns	lb	.97	—
¼ lb cns	lb	1.03	—
solvent USP, dms., c.l., dlvd.	lb	15¾	—
t.c.l., same basis	lb	.16¾	—
tanks, same basis	lb	.13¾	—
synthetic, dms., c.l., works	lb	.16½	—
t.c.l., works	lb	17	—
tanks works	lb	.15	—
Ethyl, absolute, ACS, dms	lb	.37	- —
anesthesia, USP, hospitals, 1-lb cns	lb	.89	—
½ lb cns	lb	.97	—
¼ lb cns	lb	1.03	—
solvent USP, dms., c.l., dlvd.	lb	15¾	—
t.c.l., same basis	lb	.16¾	—
tanks, same basis	lb	.13¾	—
synthetic, dms., c.l., frt. alld.	lb	.1575	—
t.c.l., same basis	lb	.1675	—
tanks, same basis	lb	.1375	—
Isopropyl, dms., c.l., dlvd	lb	.06¾	.09¼
t.c.l., dlvd	lb	07½	10
tanks, dlvd	lb	03	07½
Nitrous, conc., bots., 100-lb. lots	lb	1.28	- 1.35
Vinyl, USP, anesthesia, bots, 50 cc. hospitals	bot	1.12	—
75 cc hospitals	bot	1.56	—
Ethyl acetate, natural, fermentation 85-86% dms., c.l., frt. alld.	lb	.12¾	.21¾
t.c.l., frt. alld	lb	.13¼	.22¾
tanks, frt. alld	lb	.11	.20
95-98%, dms., c.l., frt. alld.	lb	.13	.22
t.c.l., frt. alld	lb	.13¾	.23
tanks, frt. alld	lb	.11¼	.20¼
99%, dms., c.l., frt. alld	lb	.13¼	.22¼
t.c.l., frt. alld	lb	.14	.23¼
tanks, frt alld	lb	.11½	.20½
NF, dms, frt alld	lb	24	.25
synthetic, 85-90%, dms., c.l., frt. alld	lb	.12¾	—
t.c.l., frt. alld	lb	.13½	—
tanks, frt. alld	lb	.11	—
95-98%, c.l., frt. alld	lb	.13	—
t.c.l., frt. alld	lb	.13¾	—
tanks, frt. alld	lb	.11¼	—
99%, dms., c.l., frt. alld	lb	.13¼	—
t.c.l., frt. alld	lb	.14	—
tanks, frt. alld	lb	.11½	—
Acetoacetate, dms., c.l., dlvd	lb	.55	—
t.c.l., dlvd	lb	56½	—
Acrylate dms., c.l., and truck load, dlvd	lb	.49	—
less than truckload, dlvd	lb	.49½	—
tanks, dlvd	lb	.48	—
Aminobenzate, USP (see Benzocaine).			
Benzoate, cns dms	lb	74	79
Bromide, tech., 98% dms	lb	43	47
Butyrate bots	gal	6.10	6.60
cns., dms., works	lb	80	1.02
Carbamate (see Urethane).			
Chloride tech dms, c.l., works	lb	18	20
cyls, c.l., same basis	lb	20	22
tanks same basis	lb	10	—
USP bbls., cyls	lb	22	24
Cinnamate, cns	lb	2.25	2.50
Formate, dms	lb	60	—
Gallate dms, 100 lb. to 2,000 lb. lots, works	lb	3.90	4.40
Iodide, bots., works	lb	3.30	4.13
cbys., works	lb	3.00	—
Lactate, dms., works	lb	.47½	—
Methacrylate dms., c.l., and truckload works	lb	50	—
less than truckload, works	lb.	.50½	—
Nitrite (see Ether nitrous).			
Oenanthate dms	lb	1.00	1.50
Oleate, dms., t.c.l., works	lb	No prices	
Oxalate (see Diethyl oxalate)			
Silicate dist (see Tetraethyl-orthosilicate.			
40% available SiO dms., works,	lb	60½	—
Ethylalphanaphthylamine (see Monoethylalphanaphthylamine)			
Ethylanilin (see Monoethylanilin)			
Ethylbenzene dms., c.l.	lb	14	—
t.c.l	lb	15	—
tanks	lb	13	—
Ethylbutyl ketone dms., c.l., works,	lb	.33½	—
t.c.l., works	lb	34	—
tanks	lb	32	—

Ethylcellulose, bags, 5,000-lb. lots, works	lb.	.63	—
smaller lots, works	lb.	.67	.75
Ethylene dichloride, dms., c.l., works, frt. alld., E. of Rockies	lb.	.11¾	—
t.c.l., works frt. alld., E. of Rockies	lb.	.12¾	—
tanks, frt. alld., E. of Rockies	lb.	.10	—
Prices west of Rockies 1c. per lb higher.			
Oxide, cyls., c.l., frt. equald	lb.	.26	—
t.c.l., frt. equald	lb.	.27	—
tanks, dlvd. E	lb.	.19	—
Trichloride (see Trichloroethane).			
Ethylenediamine, 76%, dms., c.l., dlvd	lb.	.49	—
t.c.l., dlvd.	lb.	.50	—
tanks, dlvd.	lb.	.47	—
Ethyleneglycol dms., c.l., frt. alld. E	lb.	.18¾	—
t.c.l., same basis	lb.	.19¾	—
tanks, same basis	lb.	.17	—
Diethylether dms., t.c.l., works,	lb.	.55	—
Monobutylether dms., c.l., works,	lb.	.23¾	—
t.c.l., works	lb.	.24¼	—
tanks, works	lb.	.22	—
Monoethylether, dms., c.l., works,	lb.	.20¼	—
t.c.l., works	lb.	.20¾	—
tanks, works	lb.	.19	—
Monoethylether acetate, dms., c.l., works	lb.	.19¾	—
t.c.l., works	lb.	.20¼	—
tanks, works	lb.	.18	—
Monomethylether, dms., c.l., works	lb.	.22	—
t.c.l., works	lb.	.22½	—
tanks, works	lb.	.21	—

Ethyleneglycol monomethylether acetate, dms., c.l., works	lb.	.28¾	—
t.c.l., works	lb.	.29¼	—
tanks, works	lb.	.27	—
Monostearate, dms.	lb.	.35	- .42½
Ethylethanolamines, mixed, dms., c.l., frt alld., E Miss	lb.	.42	—
t.c.l., same basis	lb.	.43	—
tanks, same basis	lb.	.40	—
Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
Ethylorthotoluidine (see Monoethylorthotoluidin).			
Ethylvanillin, cns., 25 lbs	lb	6.75	7.30
smaller lots	lb	7.35	7.40
Eucalyptol, USP, cns., dms	lb	2.35	3.10
Eucalyptus leaves, bls	lb.	.10	.11
Eugenol, pure, USP, bots	lb.	3.95	- 4.25
Euphorbia, herb, bls	lb.	.12	.14

F

Feldspar enamel, 100 mesh, bgs., works	ton.	20.00	-22.00
Glass, 20 mesh, bulk, tons, works.	ton.	11.75	-12.50
Pottery bgs., ton lots, works	ton.	20.00	-22.00
bulk, c.l., works	ton.	18.00	-20.00
Fennel seed, Czech, dark, bgs	lb.	.13½	.14
light, bgs	lb.	.19	- .19¼
French bgs	lb.	No stocks.	
Indian, bgs	lb.	No prices.	
Syrian, light, bgs	lb.	.20	- .21

Dyes, Coaltar, for Stains, Spirit-Soluble—Fluorspar

Fenugreek seed, Indian, bgs	lb.	No prices.	
Moroccan, bgs	lb.	.05½	.05¾
Tunesian, bgs	lb.	.05½	.06
Ferric-ammonium citrate (see Iron ammonium citrate).			
Ferric cacodylate (see Iron cacodylate).			
Ferric glycerophosphate (see Iron glycerophosphate).			
Ferric hypophosphite (see Iron hypophosphite).			
Ferric sulphate (see Iron sulphate ferric).			
Ferrous gluconate, NF, dms	lb.	.88	- .97
Film scrap, colored, cs., works	lb.	15	—
water white, cs., works	lb.	20	—
Fir balsam, Canada, cns	gal.	No stocks.	
Oregon, bbls	gal	2.35	3.25
Fishberries, bgs	lb.	17	.21
Fishliver oil (see Oil, fishliver).			
Fishmeal ground 60% protein, bgs., Balto area	ton	135 60	—
Fishscrap, dried 60% protein, bulk, Balto area	ton	130 00	—
Fluorspar, acid grade, bulk, c.l., mine	ton	60 00	—
ceramic grade 95 98% CaF., grd., bulk, mine, c.l	ton	47 00	Nom.
85% CaF., grd., bulk, mine	ton	41 50	Nom.
metallurgical grade, foundry, lump, 55-60% effective CaF., bulk, mine, c.l.	ton	38 00	Nom.
washed gravel, 58-60% effective CaF., bulk, mine, c.l.	ton	38.00	Nom.
60-65% effective CaF., bulk, mine	ton	39.00	—
65-70% effective CaF., bulk, mine, c.l	ton	40.00	Nom.

MONOETHANOLAMINE

For use as . . . a gas scrubbing agent for recovery of hydrogen sulfide and carbon dioxide . . . a chemical intermediate in the manufacture of various surface active agents, rubber chemicals, and other materials. . . an agent in the manufacture of antibiotics.

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For use as . . . an intermediate in the manufacture of surface active agents used in textile specialties, herbicides, petroleum demulsifiers, etc. . . . a gas scrubber in refinery operations . . . a rubber chemicals intermediate.

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For use as . . . an intermediate in manufacture of surface active agents used in textile specialties, waxes and polishes, herbicides, petroleum demulsifiers, toilet goods, cement additives, cutting oils, etc. . . . a rubber chemicals intermediate.

Jefferson Chemical Company, Inc.
711 FIFTH AVENUE, NEW YORK 22, N. Y.

JEFFERSON CHEMICALS ®

ESSENTIAL CHEMICALS FROM HYDROCARBON SOURCES
ETHYLENE OXIDE • ETHYLENE GLYCOL • ETHYLENE DICHLORIDE • DIETHYLENE GLYCOL
MONOETHANOLAMINE • DIETHANOLAMINE • TRIETHANOLAMINE

Shipped in tank cars or drums. For additional information about ethanolamines and technical data on these and other Jefferson chemicals, write to Department A. Ask for our new Product Bulletin.

Fluorspar, Metallurgical, Washed Gravel, 70%—Gum, Ester

Fluorspar, metallurgical, washed gravel 70% or better effective CaF_2, bulk, mine, c.l. ton 41.00 - —
imported, bulk, ex dock, New York ton 37 00 Nom.

Formaldehyde, NF, (inhibited), dms., c.l., E. works lb. .0625- .0675
l.c.l., E. works lb. .0675- .0725
tanks, E. works lb. .0420- .045
methanol-free (uninhibited), tanks, works lb. .0395- .0425

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .55 - .62
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga., mines ton 38.50 - —
Illinois mines ton 37.20 - —
spent, bulk, Bayonne ton. 2.00 - 4.00
imported, bgs., c.l. ton 30.00 -40.00
Furfural, tech., dms., c.l., works lb. .13 - —
l.c.l., works lb. .15 - —
tanks, works lb. .108 - —
Fusel oil, refined, dms., c.l., dlvd lb. .19¾- .29¾
l.c.l., dlvd lb. .20¾- .30¾
tanks, dlvd lb. .27 - .28
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., l.c.l lb. .45½- —
No. 3, bbls., l.c.l lb. .43½- —
liquid, No. 1, bbls., l.c.l lb. .22½- —
No. 2, bbls., l.c.l lb. .21½- —
No. 3, bbls., l.c.l lb. .19 - —
solid, No. 1, bxs., l.c.l lb. .45 - —

G

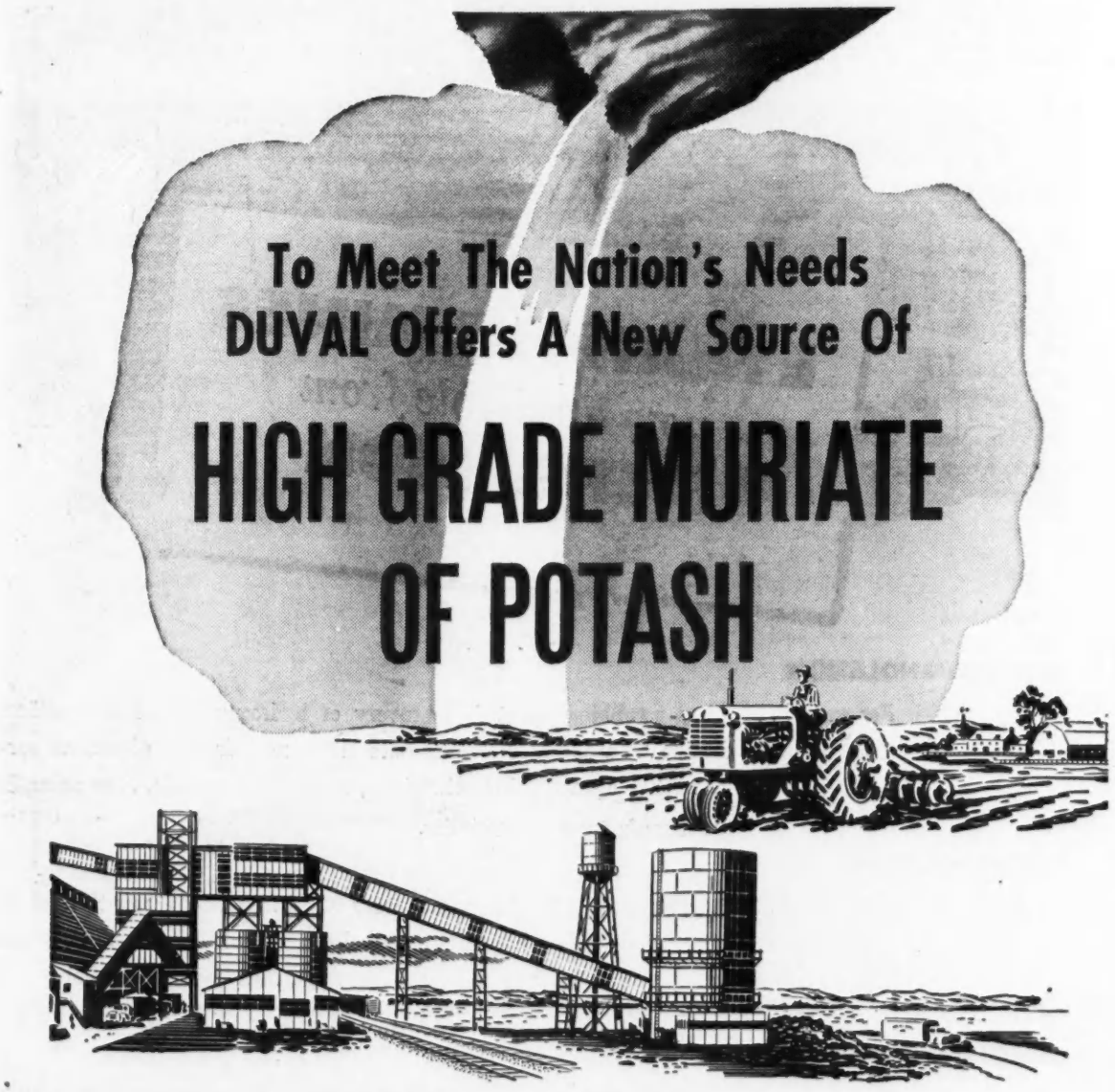
G salt, bbls., frt. alld lb. .73 - —
Galangal root, bls lb. .18 - .25
Gammapicoline, 95%, dms., c.l., works lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane tanks gal. .1073- —
N. Y. Harbor, 86 octane, tanks gal. .1255- .136
Group 3, 82 octane, tanks gal. .10375- .107
Gulf coast, 82 octane, tanks gal. .105 - .11
Pennsylvania, western U. S. motor, 86 octane, tanks gal. .1275- .13
natural, 26-70 octane, group 3, tanks gal. .06875- —
Gelatin, silver label, imported, cs. lb. 1.25 - —
Gelsenium root, bls lb. .25 - .26
Gentian root, bls lb. .18 - .22
grd., bbls., bxs lb. .22 - .26
powd., bbls., bxs lb. .23 - .27
Geraniol, extra, cns., dms lb. 1.85 - 2.40
standard, cns., dms lb. 1.40 - 1.80
Geranyl acetate, cns lb. 1.80 - 2.40
Ginger, oleoresin, NF, from African roots, bots lb. 5.50 - 6.50
root, African, bls lb. .18 - .19
March-May, steamer, bgs. lb. .19 - .20
Cochin, unbleached, bgs lb. .20 - .21
March-April, steamer, bgs. lb. .17 - .18
Jamaica, No. 1, bgs lb. No prices.
No. 2, bgs lb. .40 - .42
March-April, steamer, bgs. lb. .15 - .16
Ginger root, Jamaica, No. 3, bgs. lb. .32 - .33
March-April, steamer lb. .28 .29
Rhatton, bgs., spot lb. No prices.
February, steam lb. No prices.
Nigerian, split, bgs lb. .16 - .17
March shipment lb. .15 - .16
Ginseng root, cs lb. 13.00 -16.00
Glauber's salt, anhyd (see Sodium sulphate).
cryst., bgs., c.l., works, frt. alld ton 45.00 - —
l.c.l., works ton 50.00 - —
Glue, bone, calcium-type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest lb. .21½- —
65 jellygrams, bgs., c.l., same basis lb. .22½- —
80 jellygrams, bgs., c.l., same basis lb. .23 - —
110 jellygrams, bgs., c.l., same basis lb. .24 - —
130 jellygrams, bgs., c.l., same basis lb. .25 - —
over 150 jellygrams, bgs., c.l., same basis lb. .26 - —
Bone glue, l.c.l., 1c. per lb. higher than c.l.
ground, 50-55 jellygrams, bgs., c.l. (50,000 lbs.), dlvd lb. .24½- —
l.c.l., dlvd lb. .25½- —
Hide, 100-121 (jellygrams), bgs., c.l. dlvd lb. .28 - .32
122-149, bgs., c.l., dlvd lb. .29 - .34
150-177, bgs., c.l., dlvd lb. .30 - .35
178-206, bgs., c.l., dlvd lb. .31 - .37
207-236, bgs., c.l., dlvd lb. .32 - .38
237-266, bgs., c.l., dlvd lb. .33 - .39
267-296, bgs., c.l., dlvd lb. .34 - .40
299-330, bgs., c.l., dlvd lb. .35 - .41
331-362, bgs., c.l., dlvd lb. .36 - .41
363-394, bgs., c.l., dlvd lb. .37 - .42
Glue hide, 395-427, bgs., c.l., dlvd lb. .38 - .43
428-460, bgs., c.l., dlvd lb. .39 - .44¼
461-494, bgs., c.l., dlvd lb. .40 - .46
495-529, bgs., c.l., dlvd lb. .41 - .47

Hide glue, l.c.l., prices 1c. higher than c.l., bbls. ½c. more than bgs.

Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .22 - —
soaplye, 80%, tanks, dlvd lb. .20 - —
dynamite, dms., c.l., dlvd lb. .33¾- —
l.c.l., dlvd lb. .34¼- —
tanks, dlvd lb. .33¼- —
high gravity, dms., c.l., dlvd lb. .34 - —
l.c.l., dlvd lb. .34½- —
tanks, dlvd lb. .33½- —
refined, BP, 98%, dms., c.l., dlvd lb. .35⅝- —
l.c.l., dlvd lb. .36⅛- —
tanks, dlvd lb. .35⅛- —
USP, CP, 95%, dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd lb. .35 - —
tanks, dlvd lb. .34 - —
yellow, distilled, dms., c.l., dlvd lb. .33⅞- —
l.c.l., dlvd lb. .34⅜- —
tanks, dlvd lb. .33⅜- —
Glycine, USP, (see Acid aminoacetic)
Glyoxal, 30%, dms., c.l. works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Gold chloride, acid-brown, bots oz. 23.50 -24.00
acid-yellow, bots oz. 21.00 -21.50
Goldenseal root, bls lb. 3.60 - 4.00
powd., bxs lb. 3.90 - 4.25
Gold-sodium chloride, photo, bots. oz. 13.00 -14.00
USP 1X, bots oz. 14.50 -15.50
Grains of paradise, bgs lb. .30 - .32
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .05 - .095
crystalline, 88-90%, powd., bgs., fib dms., ex whse lb. .19 - .215
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31¼
Flake, No. 1, 90-95% bgs., fib. dms., ex. whse lb. .29 - .31
No. 2 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, brown, loose, dlvd lb. .03¾- —
house lb. .04¼- —
white, choice lb. .05⅜- —
yellow lb. .04½- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 4.50 - —
tungstated, PTMA, kgs., works lb. 5.75 - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island St. Louis lb. .38 - —
6-10% bbls., same basis lb. .39 - —
11-15% bbls., same oasis lb. .40 - —
16-20% bbls., same basis lb. .40½- —
21-25% bbls., same basis lb. .41¼- —
26-30% bbls., same basis lb. .41¾- —
31-35% bbls., same basis lb. .42¾- —
36-40% bbls., same basis lb. .44½- —
41-45% bbls., same basis lb. .46 - —
46-50% bbls., same basis lb. .47¾- —
50% and over, bbls. same basis lb. .48¾- —
reduced color, 25%, bbls., same basis lb. .17 - .17¼

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, l.c.l., bbls., dms., frt. alld lb. .95 - 1.20
pure c.l., bgs., frt. alld lb. .37½- .44
Dyes (see Dyes, coaltar).
Emerald, malachite toner, tungstic, PTMA, bbls., works lb. 4.50 - 5.50
Marine toner, thioflavin malachite, molybdated, PMA, bbls., works lb 4.25 - —
tungstated, PTMA, kgs lb. 5.00 - 5.67
Paris (see Paris green).
Phthalocyanin toner, bbls., works. lb. 4.40 - —
resinated, bbls lb. 4.00 - —
water dispersable, bbls lb. 1.71 - —
Pigment E, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .30 - .32
Guaiac resin, NF, cs lb. .55 - .60
ordinary, cs lb. .49 - .51
Guaiacol cryst., tins lb. 1.90 - —
liquid, NF, bots., cbys lb. 2.15 - 2.20
Guaiacol carbonate, dms lb. 3.15 - 3.20
Guarana powd., cs lb. 1.50 - 1.75
Gum accroides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs lb. .35 - .45
Arabic, amber sorts, bgs lb. .15½- .16
powdered, USP, bbls lb. .19 - .20
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .40 - .45
Camphor (see C).
Cellulose, bgs., 23,000 lbs. or more, works, frt. alld lb. .60 - —
smaller lots same basis lb .62 - —
Copal, Congo, No. 1, bgs lb. .25 - .27
No. 2, bgs lb. .20 - .22
No. 3, bgs lb. .17½- .19½
Manila, loba B, bgs lb. No prices.
C, bgs lb. .32 .33
CBB, bgs lb. .27 - 28
CNE, bgs lb. No prices.
DBB, bgs lb. .27 - 28
DK, bgs lb. .22 - .24
dust, bgs lb. .12½ - .13½
soft, MA, bgs lb. .25 - .26
WS, bgs lb. No prices.
Philippine, pale, chips, bgs lb. .27 - .28
nubs, bgs lb. .32 - .33
seeds, bgs lb. .20 - .21
sorts, bgs lb. .24 - .25
Pontianak, chips, bgs lb. .26 - .27
nubs, bgs lb. .40 - .41
Dammar, Batavia, A E, bgs lb. .23 - .25
dust, bgs lb. .08 - .10
E, bgs lb. .14 - .15
East india, bales, bold, bgs lb. .13½ - .14½
nubs and chips, bgs lb. .08 - .10
black, bold, bgs lb. .13½ - .14½
unscraped, bgs lb. .11 .12
nubs and chips, bgs lb. .10 .11
pale chips, bgs lb. .14 - .16
nubs, bgs lb. .23 - .26
Singapore, No. 1, bgs lb. .34 - .36
No. 2, bgs lb. .23 - .25
No. 3, bgs lb. .09½- .11
dust, bgs lb. .09½- .11
seeds, bgs lb. .12½- .13½
Elemi, cns lb. .24 - .26
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .17½- —
wood-rosin type, dms., c.l., dlvd., Ill., Ind., etc lb. .17½- —



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Gamboge, pipe, cs. lb. .70 - 1.00
powd., bbls. lb. .90 - 1.20
Ghatti No. 2, bgs. lb. .35 - .37
No. 3, bgs. lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, NF, powd., No. 1, bbls. lb. .44 - .54
No. 2, bbls. lb. .37 - .50
No. 3, bbls. lb. .30 - .40
Kauri, bgs. lb. .31½ - .32¾
Kino, cs. lb. 1.15 - 2.40
Locust bean, powd., bgs. lb. .32 - .33
Mastic, cs. lb. 1.55 - 2.10
Myrrh, cs. lb. .30 - .35
Olibanum siftings, cs. lb. .16 - .18
tears cs. lb. .20 - .30
Opium (see O)
Red (see Gum yacca).
Rosin (see R)
Sandarac, cks. lb. 3.20 - 4.00
Scammony, cs. lb. 1.50 - 1.55
Sterculia (see Gum karaya).
Talha, bgs. lb. .10 - .11
Tragacanth, No. 1, cs. lb. 3.50 - 3.75
No. 2, cs. lb. 3.25 - 3.50
No. 3, cs. lb. 2.50 - 2.75
powdered, USP, bbls. lb. 1.25 - 1.35
Yacca, bgs. lb. .06 - —
Gypsum, annydrous filler, paper bgs., c.l., Medicine Lodge Kan ton. 19.00 - —
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald ton. 18.30 - —
Harlem river, N. Y., frt. equald ton. 17.30 - —
Medicine Lodge, Kan., frt. equald ton. 16.00 - —
Stucco, paper bgs., c.l., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Fort Dodge, Iowa, frt equald. ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald. ton. 8.00 - —
New Brighton, N. Y., frt. equald. ton. 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald. ton. 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, dom., paper bgs., c.l., Baltimore ton. 14.40 - —
Harlem River, N. Y. ton. 14.40 - —
English, paper bgs., ex dock. ton. 48.00 —
ex warehouse ton. 53.00 -56.00

H

Hawthorn berries, bgs. lb. .30 - .32
Heliotropine, cryst., cns. lb. 3.10 - 3.25
Helonias root, bls. lb. 1.65 - 1.75
Hellebore root dom., green, bls. lb. .60 - .65
imp., black, whole, bls. lb. .25 - .30
ground, bxs. lb. .30 - .35
powder, bxs. lb. .32 - .37
white, whole, bls. lb. .25 - .30
powder, bxs. lb. .35 - .45
Hematine, extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No 5, bbls., l.c.l. lb. .37 - —
paste, No. 1, bbls., l.c.l. lb. .20½ - —
Henbane leaves, bls. lb. .32 - .35
Henna leaves, bls. lb. .23 - .25
powd., bbls., bgs. lb. .22 - .29
Heptane, industrial, Bayonne, N. J., tanks gal. .18 - —
group 3, tanks gal. .1375 - .1405
Hesperidin methylchalcone, bots., works lb. 50 00 - —
Hexachlorophene, dms. lb. 2 60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000 lbs. or more, Perth Amboy or N. Y. C. lb. .232 - —
less than 1,000 lbs., same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
less than 1,000-lb. lots, same basis. lb. .249 - —
USP, dms., 500 lbs. or more, same basis. lb. .40½ - —
smaller lots, same basis. lb. .41½ - —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, Bayonne, N. J., tanks gal. .18 - —
Group 3, tanks gal. .145 - .148
Hexanol, normal, dms., c.l., works. lb. .34½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms. lb. 2.25 - —
Salicylate, dms lb. 1.75 - —
Hexyleneglycol, dms., c.l., dlvd lb. .15¾ - —
l.c.l., dlvd lb. .16½ - —
tanks, dlvd lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, frt. alld lb. 17.00 - —
works lb. 15.00 -17.00
smaller lots, frt. alld lb. 18.00 - —
works lb. 16.00 -20.00
Histamine diphosphate, USP., bots. kilo 450.00 - —
Histidine hydrochloride, laeve, NF, fib dms., 50-kilo lots, works. kilo 80.00 -85.00
1-3 kilos, works kilo 90.00 -95.00
Homatropine hydrobromide, USP, bots. oz. 13.75 -14.00
Hydrochloride, bots oz. 20.00 -22.00
Methylbromide, USP, bots oz. 13.00 -14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 7.00 - —
Hops, NF, bls. lb. .30 - .35
Horehound herb, bls. lb. .14 - .15
Hydrangea root, bls. lb. .22 - .25
Hydrastine, bots. oz. 29.50 -31.00
Hydrochloride, NF, bots. oz. 29.50 -31.00
Sulphate, bots oz. 35.00 -37.00
Hydrastinine 10-grain bots. bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride anhyd., 50-lb. cyl., works lb. .55 - .60
Peroxide, USP bbls., dlvd lb. .03¾ - .05
35%, chys., same basis lb. .217 - .242
dms., c.l., same basis lb. .21 - —
l.c.l., same basis lb. .215 - .24
tanks lb. .203 —
Hydrogen peroxide prices on W. Coast 2c per lb. higher.
Hydroquinone, photographic grade, bbls., dms lb. .92 - 1.00
tech., dms, frt. equald lb. 78 - 84
Hydroxycitronellal, cns. lb. 6.75 - 8.40
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz. 15.75 -16.00
Hydrobromide, bots oz. 16 50 -18.00
Sulphate bots oz. 12.00 -15.00
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid, No. 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —
Hyssop herb, bgs. lb. .35 - .44
Leaves, bgs. lb. .52 - .58

I

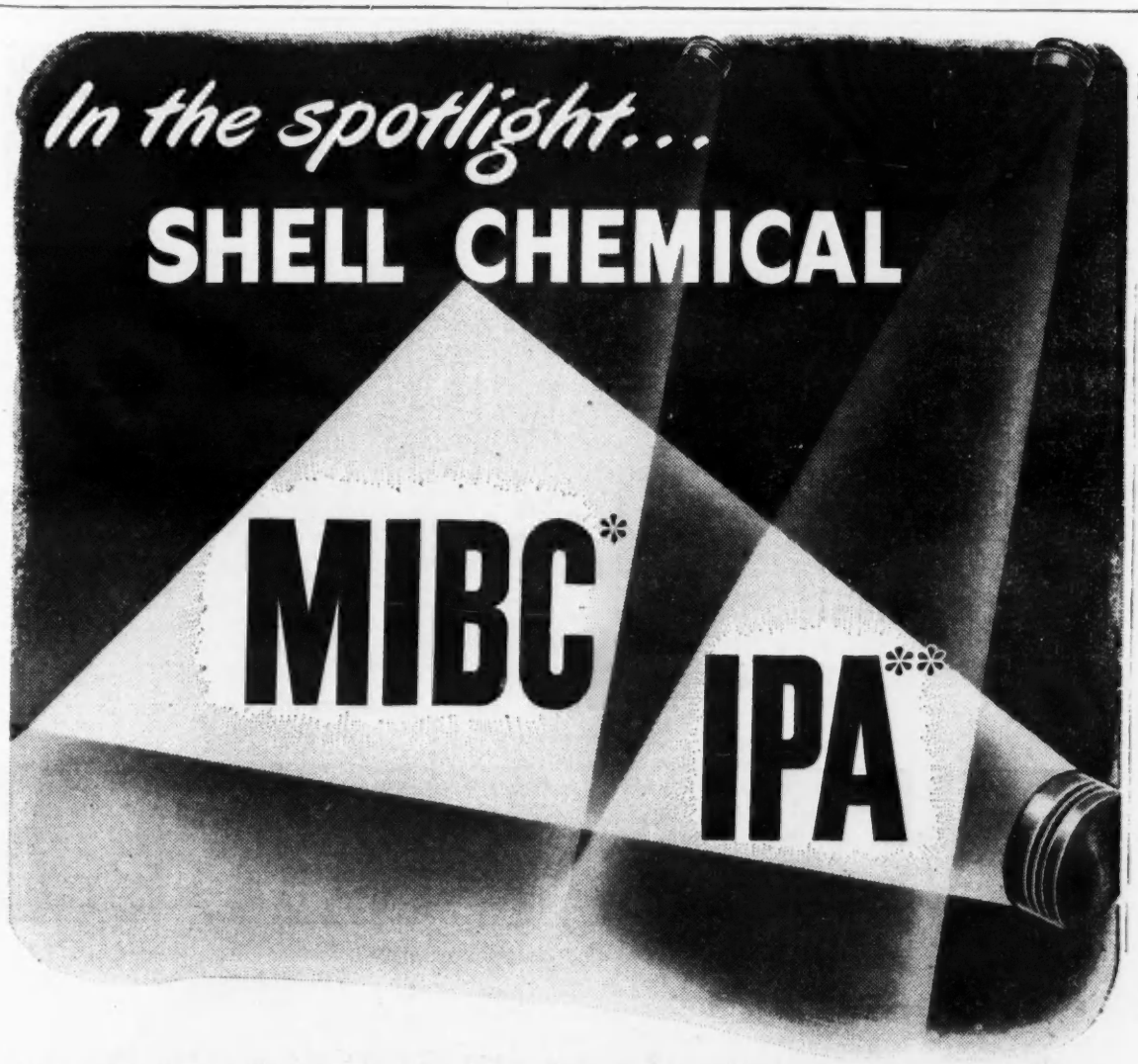
Iceland moss, bgs. lb. .30 - .35
Ichthammol, NF, dms. lb. .60 - .75
Indian red (see Red, Indian).
Indigo, nat., chests. lb. 2.14 - 2.16
synth., paste, 20%, bbls. lb. .26 - 28½
Indol, CP, bots lb. 17.00 -21.00
Inositol, dms., dlvd lb. 5.60 - —
tins, dlvd. lb. 5.70 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.84 - 2.04
resublimed, USP, bots., jars lb. 2.55 - 2.78
Iodochlorohydroxyquinolin, NF, dms., lb. 6.50 - —
Iodoform, NF, dms., kgs lb. 4.70 - 4.85
Ionone, alpha, cns lb. 5.05 - 9.05
Beta, cns lb. 5.40 -15.00
Methyl, dms., cns lb. 5.00 - 7.40
Ipecac root, bgs lb. 6.75 - 7.00
powd., bbls., bxs lb. 7.00 - 7.25
Irish moss, bleached, prime, bls lb. .25 - .30
Iron acetate liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
solut., USP, IX, cbys lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb. 13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 6.25 - —
l.c.l., works 100 lbs. 7.50 - —
cryst., indust., bbls., c.l., works 100 lbs. 5.25 - 6.25
l.c.l., works 100 lbs. 5.75 - 6.75
USP, dms., works lb. .07½ - .09
solut., 42° Be, 100% basis, cbys., c.l., works 100 lbs. 7.25 - 8.25
l.c.l., works 100 lbs. 7.75 -10.75
tanks, works 100 lbs. 3.45 - —
Citrate, gran., dms lb. .77 - .80
Gluconate, NF (see Ferrous gluconate, NF).
Iron glycerophosphate, NF, powd lb. 4.45 - 4.55
Hypophosphate, NF, dms lb. 2.80 - —
Iodide bgs. lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .23¾ - —
Oxalate, gran., dms lb. .85 - .87
Phosphate, soluble, NF, gran., pearls, cs lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., pearls, dms lb. .78 - .81
Reduced, NF, kgs lb. .90 - .95
Resinate, 7.4% Fe, dms frt. alld lb. .26½ - —
Stearate, dms., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, partially hydrated, bgs., c.l., works ton. 30.00 - —
l.c.l., works ton. 31.00 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms lb. .09½ - .10
Iron by hydrogen (see Iron, Reduced).
Iron-ammonium citrate, green, NF, gran., dms lb. .55 - .60
brown, USP, gran, dms lb. .55 - .59
Oxalate, fine gran., dms lb. .25½ - .28½
Iron-potassium, oxalate, fine gran., dms lb. .30½ - .33½
Iron-sodium, oxalate, fine gran., dms lb. .25½ - .28½
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .70 - .97
Propionate, dms lb. 1.15 - 1.50
Isobutyl acetate, cns lb. .75 - .97
Methylacrylate, dms., works lb. .60 - —
Isobutyraldehyde, dms., works lb. .50 - .53
Isoeugenol, cns lb. 4.95 - 5.40
Isopentane, dms., works lb. .43 - .55
Isophorone, dms., c.l., works lb. .24¼ - —
l.c.l. works lb. .24¾ - —
tanks, works lb. .22½ - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld lb. .12¾ - —
l.c.l., same basis lb. .13½ - —
tanks, same basis lb. .11 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Isopropylamine (see Monoisopropylamine).
Isoquinoline, dms., works lb. .65 - 1.25

J

Jaborandi leaves, bls lb. .15 - .20
Jalap root, NF, bls lb. .50 - .55
powd., bbls., bxs lb. .55 - .60
Juniper berries, bgs lb. .08 - .15
Tar, NF, dms lb. .42 - .68

K

Kamala, powd., cns lb. 75 - .80
Kaolin (see also Clay, China), NF, powd., fib. dms lb. .08 - .16¼
colloidal, fib, dms lb. .15 - .15½
Kava Kava root, bls lb. .28 - .30
Kerosene, at refinery, Ark., 42-44 specific gravity w.w., tanks, gal. .0923 - —
California, 40-43 s.g., w.w., tanks gal. .126 - .130
Gulf ports, 41-43 s.g., w.w., tanks gal. .0900 - .0925
N. Y. Harbor, 43-44 s.g., w.w., tanks gal. .101 - .103
Okla.-Tex., 41-43 s.g., w.w., tanks gal. .090 - .095
Penn., Western, 43 s.g., w.w., tanks gal. .11 - —



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Kola Nuts—Magnesium Laurate

Kola nuts, bgs ..... lb. .08 - .09
Kyanite, imp., 60% alumina, low iron content, 10 mesh, bulk, whse ton.95.00 -100.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

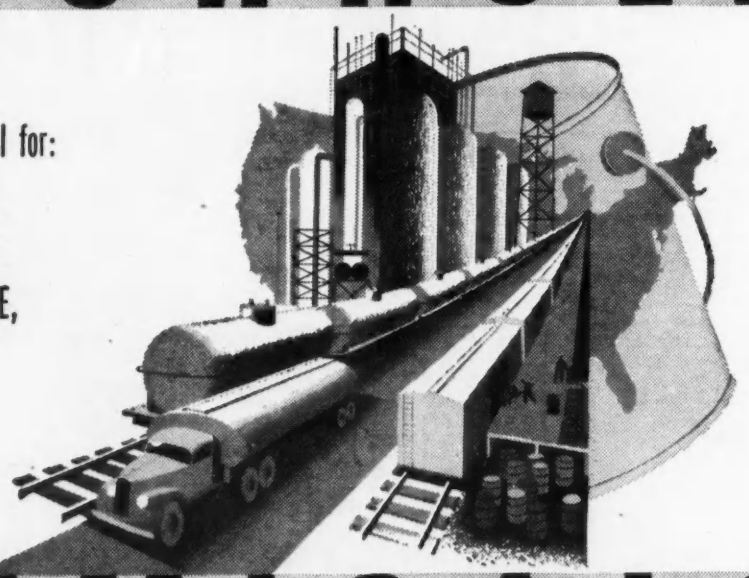
L

Lady's slipper root, bls ..... lb. 1.40 - 1.50
Lanolin, cosmetic, dms., works .. lb. .35 - .40
USP, anhydrous, dms., works .. lb. .33 - .38
hydrous, dms., works ..... lb. .33 - .38
Lard, cash, trcs., Chicago ..... lb. .11⅞ Nom.
Larkspur seed, bgs ..... lb. .20 - .25
Laurel berries, bgs ..... lb. .25 - .26
Leaves, Greek, bls ..... lb. .10 - .10½
Portuguese, bls ..... lb. .09½- .10
Turkish, bls ..... lb. .11¼- .11½
Yugoslavian, bls ..... lb. .09 - .09½
Lauryl chloride, dms., works, frt. equald ..... lb. .75 - —
Methacrylate, normal, dms., less than truckload, works .. lb. 1.00 - —
Lavender flowers, medium, bls .. lb. .55 - .60
ordinary, bls ..... lb. .16 - .20
select, bls ..... lb. .70 - .80
Lead acetate, white crystals, bbls. lb. .24 - —
gran., bbls ..... lb. .25 - —
powd., bbls ..... lb. .25 - —
NF, cryst., dms ..... lb. .32 - .33
gran., powd., dms ..... lb. .32 - .33
Arsenate, dealers, acid powder, 3-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or over .. lb. .30 - —
l.c.l., frt. alld ..... lb. .31 - .32
1-lb. bgs., c.l. ..... lb. .45 - —
l.c.l. ..... lb. .46 - —
Lead, blue, basic sulphate, bbls., c.l., ship't point, frt. alld .. lb. .1919- —
l.c.l., works ..... lb. .2019- —
Carbonate (see Lead, white).
Chloride, dms ..... lb. .39 - —
Iodide, NF V, jars ..... lb. 3.82 - —
Linoleate, precip., 26.15%, dms .. lb. .35 - —
Metal, pigs, prime, N. Y. ..... lb. .19 - —
St. Louis ..... lb. .1880- —
Metallic paste, dms., 20,000-40,000 lbs., works .. lb. .36½- —
10,000-20,000 lbs., same basis. lb. .37 - —
2,000-10,000 lbs., same basis. lb. .37½- —
200-2,000 lbs., same basis .. lb. .38 - —
Prices ex whse. Jersey City, N. J., 4½c. per pound higher.
Naphthenate, liquid, 16% Pb, dms., dlvd .. lb. .17¾- —
24% Pb, dms., dlvd ..... lb. .24¼- —
37% Pb, dms., dlvd ..... lb. .32½- —
Nitrate, bbls., c.l. ..... lb. .24½- —
l.c.l. ..... lb. .24¾- —
Oleate, fused, bbls ..... lb. .24 - —
Orthosilicate gel, 50% PbO, dms., works .. lb. .32¾- —
60% PbO, dms., works ..... lb. .31¾- —
Peroxide, powd., tech., bbls .... lb. .41 - .43
Phthalate, dibasic, dms., works. lb. .42½- —
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld. lb. .2155- —
l.c.l., same basis ..... lb. .2255- —
97%, Pb_3O_4, bbls., c.l., same basis .. lb. .2180- —
l.c.l., same basis ..... lb. .2280- —
98% Pb_3O_4, bbls., c.l., same basis .2205- —
l.c.l., same basis ..... lb. .2305- —
Lead resinate, precip., dms., dlvd .. lb. .28½- —
Salicylate, normal, dms., works. lb. .46 - —
Silicate, bgs., l.c.l., ship't pt., frt. alld .. lb. .1805- .1875
Stearate, dibasic, ton lots ..... lb. .56 - —
precip., bbls., c.l. ..... lb. .39 - —
ton lots ..... lb. .40 - —
less ton lots ..... lb. .41 - —
Sulphate (see Lead, blue; Lead, white; basic sulphate).
tribasic, dms., works ..... lb. .29¼- —
Tallate, liquid, 16% Pb, dms .. lb. .15½- —
24% Pb, dms ..... lb. .21 - —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld .. lb. .2010- —
l.c.l., same basis ..... lb. .2110- —
basic silicate, bgs., c.l., ship't point, frt. alld .. lb. .1715- .2271
l.c.l., same basis .. lb. .1815- .2371
basic sulphate, bgs., c.l., ship't point, frt. alld .. lb. .1919- —
l.c.l., same basis ..... lb. .2019- —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works. lb. .16 - .18
l.c.l., same basis ..... lb. .17 - .19
unbleached, c.l., same basis .. lb. .15 - .17
l.c.l., same basis ..... lb. .16 - .18
Lemon peel, bls ..... lb. .20 - .26
Leucine dextro-laevo, dms., works. lb. 12.25 -15.00
Licorice extract, mass, cns ..... lb. .20¾- .27
powd., bbls. ..... lb. .31 - .35
Root, bls ..... lb. .08 - .09
5-lb. bundles, cs ..... lb. .40 - .45
powd., bbls. ..... lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works .. lb. .05¼- .06½
Lime, agricultural, bgs., works .. ton. 14.50 - —
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton. 18.00 - —
Annville, Pa ..... ton. 11.50 - —
Bellefonte, Pa ..... ton. 11.50 - —
Lime, chemical (quicklime) lump, pebble, bulk, Buffalo, N. Y. .. ton. 14.00 - —
Carey, Ohio ..... ton. 7.00 - —
Cedar Hollow, Pa .... ton. 11.50 - —
Farnams, Mass ..... ton. 14.00 - —
Gibsonburg, Ohio ..... ton. 12.50 - —
Hannibal, Mo ..... ton. 12.00 - —
Keystone, Ala ..... ton. 10.25 - —
Kimballton, Va ..... ton. 10.25 - —
Knoxville, Tenn ..... ton. 10.50 - —
Lewisburg, Ohio ..... ton. 10.00 - —
Limedale, Ark ..... ton. 10.00 - —
Marble Cliff, Ohio .. ton. 10.00 - —
Martinsburg, W. Va .. ton. 11.00 - —
McNeil, Tex ..... ton. 9.50 - —
Mosher, Mo ..... ton. 10.25 - —
Redick, Florida ..... ton. 13.50 - —
Woodville, Ohio ..... ton. 11.50 - —
York, Pa ..... ton. 11.50 - —
Hydrated, paper bgs., Adams, Mass .. ton. 15.50 - —
Annville, Pa ..... ton. 14.50 - —
Bellefonte, Pa ..... ton. 14.50 - —
Buffalo, N. Y. ..... ton. 16.00 - —
Cedar Hollow, Pa .... ton. 14.50 - —
Chicago, Ill ..... ton. 12.50 - —
Engle, W. Va ..... ton. 14.50 - —
Farnams, Mass ..... ton. 14.00 - —
Gibsonburg, Ohio ..... ton. 16.50 - —
Hannibal, Mo ..... ton. 12.50 - —
Keystone, Ala ..... ton. 13.50 - —
Kimballton, Va ..... ton. 13.50 - —
Knoxville, Tenn ..... ton. 13.00 - —
Lewisburg, Ohio ..... ton. 14.00 - —
Limedale, Ark ..... ton. 12.00 - —
Marble Cliff, Ohio .... ton. 13.50 - —
Manistique, Mich .... ton. 9.50 - —
McNeil, Tex ..... ton. 13.00 - —
Mosher, Mo ..... ton. 12.50 - —
Petoskey, Mich ..... ton. 10.00 - —
Redick, Fla ..... ton. 16.00 - —
Springfield, Mo ..... ton. 9.00 - —
Woodville, Ohio ..... ton. 14.50 - —
York, Pa ..... ton. 14.50 - —
Spray, paper bgs., Adams, Mass. ton. 17.00 - —
Annville, Pa ..... ton. 17.00 - —
Bellefonte, Pa ..... ton. 15.50 - —
Carey, Ohio ..... ton. 11.00 - —
Engle, W. Va ..... ton. 14.50 - —
Farnams, Mass ..... ton. 14.00 - —
Gibsonburg, Ohio ..... ton. 16.50 - —
Keystone, Ala ..... ton. 13.50 - —
Kimballton, Va ..... ton. 13.50 - —
Kingston, Ala ..... ton. 13.50 - —
Lewisburg, Ohio ..... ton. 16.00 - —
Marble Cliff, Ohio ..... ton. 16.00 - —
McNeil, Tex ..... ton. 16.00 - —
Mosher, Mo ..... ton. 12.50 - —
Redick, Florida ..... ton. 16.00 - —
Rockland, Me ..... ton. 10.00 - —
Woodville, Ohio ..... ton. 16.50 - —
York, Pa ..... ton. 15.50 - —
Lime salts (see Calcium).
Lime ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ... ton. 3.50 - 4.00
Linalool, ex bois de rose, dms .. lb. 6.25 - 6.45
ex lignaloe wood, dms ..... lb. 6.75 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms .. lb. 6.15 - 6.45
96-98%, dms ..... lb. 6.60 - 7.35
ex petitgrain, bots ..... lb. 5.00 - 6.50
Lindane, 25% formulation cns., works .. lb. 2.70 - —
dms., works ..... lb. 2.60 - —
99%, tech., dms., works ..... lb. 5.75 - —
Linden flowers with leaves, bls .. lb. .34 - .38
without leaves, bls ..... lb. .45 - .50
Linseed meal expeller, 36%, bulk, Midwest mills .. ton. 68.00 Nom.
extracted, 36%, same basis .. ton. 66.00 Nom.
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld .. lb. .2065- —
l.c.l., same basis ..... lb. .2165- —
Lithium benzoate, dms ..... lb. 1.65 - 1.67
Bromide, NF, bbls., works, frt. equald .. lb. 1.90 - 2.35
Carbonate, NF, bbls., kgs ..... lb. 1.05 - 1.15
Chloride, cryst., dms ..... lb. .95 - 1.25
Citrate, NF, bbls., dms., kgs .. lb. 1.05 - 1.40
Fluoride, bbls ..... lb. 1.80 - 2.00
Hydride, powd., dms., works .. lb. 14.00 -26.00
Hydroxide monohydrate, dms .. lb. .80 - 1.25
Salicylate, dms ..... lb. 1.60 - 1.70
Lithopone, ordinary, bgs., c.l., dlvd. lb. .079 - —
l.c.l., dlvd ..... lb. .0865- .0890
titanated (high-strength), bgs., c.l., dlvd .. lb. .10 - —
l.c.l., dlvd ..... lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.
Liverwort leaves, bls ..... lb. .70 - .75
Lobelia herb, bls ..... lb. .45 - .50
Leaves, NF ..... lb. .85 - .90
Lobeline sulphate, bots., works .. oz. 33.00 -34.00
Logwood extract, crystals, No. 1, bbls., l.c.l. .. lb. .41 - —
No. 2, bbls., l.c.l ..... lb. .39 - —
liquid, No. 1, bbls., l.c.l ..... lb. .20 - —
No. 2, bbls., l.c.l ..... lb. .19 - —
No. 3, bbls., l.c.l ..... lb. .18½- —
solid, No. 1 ..... lb. .35 - —
Lovage root, imported, bls ..... lb. .60 - .65
Lupulin, tins ..... lb. 1.95 - 2.00
Lycopodium, cs ..... lb. 1.50 - 1.60
Lysine hydrochloride, dextro-laevo, bots .. kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls ..... lb. .92 - .94
West Indian, cs ..... lb. .90 - .91
broken, cs ..... lb. .72 - .73
Magnesia, calcined, tech., ctns., works .. lb. .32 - .34¾
synth., rubber grade, ctns., works .. lb. .31 - —
USP, light, ctns ..... lb. .34 - .36
heavy, bbls. ..... lb. .36 - .38
Magnesite, chemical grade, bgs., c.l., works, frt. equald .. ton. 72.50 - —
dead-burnt, bulk, c.l., standard grain, Chewalah, Wash .. ton. 36.30 - —
Magnesium bromide, jars ..... lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald .. lb. .09½- —
l.c.l., frt. alld ..... lb. .10½- —
bbls., c.l., frt. equald ..... lb. .10¾- —
l.c.l., frt. alld ..... lb. .11¾- —
kgs, c.l., frt. equald ..... lb. .12 - —
l.c.l., frt. alld ..... lb. .13 - —
USP, bgs., c.l., frt. equald .. lb. .11¼- —
l.c.l., frt. alld ..... lb. .12¼- —
bbls., c.l., frt. equald ..... lb. .11¾- —
l.c.l., frt. alld ..... lb. .12¾- —
kgs., c.l., frt. equald ..... lb. .13 - —
l.c.l., frt. alld ..... lb. .14 - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.
Chloride, anhyd., lump, 95-98%, dms., c.l., works, frt. equald .. lb. .12¾- —
l.c.l., same basis .. lb. .14 - .15
powd., bbls., works ..... ton. 50.00 - —
hydrous, flake, dms., l.c.l., works .. ton. 49.00 -51.00
Gluconate, dms., cns ..... lb. 1.30 - 1.37
Glycerophosphate, dms., works .. lb. 5.10 - 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs .. lb. .29 - .30
Hypophosphite, dms ..... lb. 1.60 - —
Laurate, bbls. ..... lb. .46 - .47

REICHHOLD



Have You Checked RCI for:
PHENOL, GLYCERINE,
MALEIC ANHYDRIDE,
PHTHALIC ANHYDRIDE,
SODIUM SULFATE,
SODIUM SULFITE?

CHEMICALS

● In order to assure a steady supply of top quality raw materials to its many plants all over the world, Reichhold has developed its own facilities for producing the basic chemicals listed above. Thanks to modern production methods and equipment plus a far-sighted expansion program, Reichhold has become a major producer of these vital chemicals . . . frequently able to share its production with other industries. If you need phenol, glycerine, maleic anhydride, phthalic anhydride, sodium sulfate or sodium sulfite, keep in touch with Reichhold. For current availabilities, write, wire or phone the Chemical Department.

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630 Fifth Avenue, New York 20, New York

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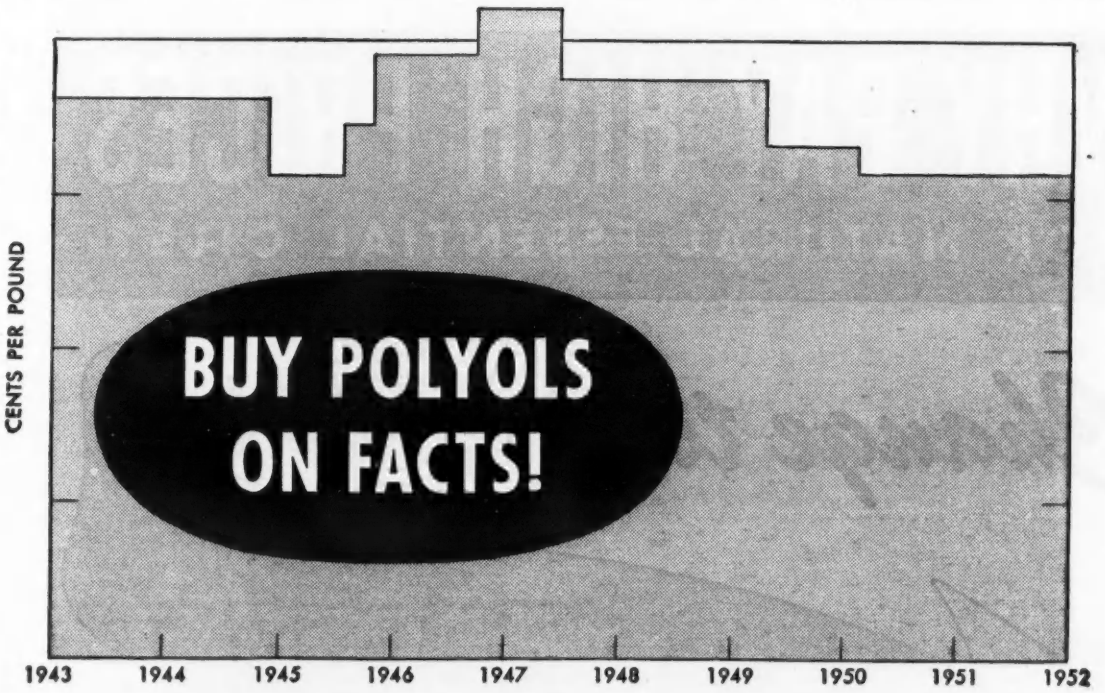
Plants: Detroit, Michigan · Brooklyn, N.Y. · Elizabeth, N. J. · South San Francisco and Azusa, Calif. · Chicago, Ill. Tuscaloosa, Alabama · Seattle, Wash. · Charlotte, N. C. · Liverpool, England · Paris, France · Napies, Italy Sydney, Australia · Hamburg, Germany · East London, South Africa · Barcelona, Spain · Wiznedorf, Austria Buenos Aires, Argentina · São Paulo, Brazil · Sassenheim and Apeldoorn, Holland · Gothenburg, Sweden Toronto, Port Moody, and Montreal, Canada · Osaka, Japan · Zurich, Switzerland

Magnesium metal, 99.8% ingots, cs., works lb. .24½- —
sticks, cs., works, frt. alld. on carlots lb. .42 - .44
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .12 - .14
Sulphate (see Epsom salt).
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .43 - .45
1,000-lb. lots lb. .45 - .47
100-lb. lots lb. .48 - .50
Bulky and super grades of magnesium trisilicate grades, 7c. per lb. higher.
Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .37 - —
l.c.l., dlvd. E. of Rockies lb. .38 - —
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Malva flowers, black, bls lb. .90 - 1.10
blue, bls lb. 1.65 - 2.00
Leaves, bls lb. .35 - .38
Mandrake root, bls lb. .43 - .45
Manganese acetate, bbls lb. .32½- —
Borate, tech., bbls lb. .24 - .28½
Carbonate bbls., works lb. .21 - —
Chloride anhyd., dms., works lb. .20 - .22
Dioxide, African, battery, 84-87%, bgs., 100-ton lots, works ton 78.00 - —
smaller lots, works ton 84.00 - 94.00
Gluconate, dms., ens lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms lb. 4.70 - 4.80
Hydrate, bbls., works lb. .34 - —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.5% Mn., dms. lb. .30½- —
solid, precip., 8.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd. East lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .25 - —
Oleate, precip., bbls lb. .33½- —
Resinate, fused, 3½% Mn., dms lb. .21¾- —
precip., dms lb. .24½- —
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton 75.50 - —
l.c.l., dlvd., S. E. ton 82.50 - —
feed grade, 75%, bgs., c.l., dlvd. S.E. ton 87.50 - —
l.c.l., dlvd. S. E. ton 94.50 - —
Tallate, 6%, dms lb. .21¾- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton 80.00 Nom.
So. American, 30% tannin, c.l., ex dock ton 50.00 -52.00
Manna, flake, large, cs lb. 1.25 - 1.30
small, cs lb .80 - .95
Mannitol, com'l, dms., works lb. .40 - .43
reagent, 50-lb. dms., works lb. .85 - —
Marjoram, Argentine, bls lb. No stocks.
Bohemian, bls lb. .25 - .26
Chilean, bls lb. .23 - .24
French, bls lb. .24 - .25
Peruvian, bls lb. .22 Nom.
Matico leaves, bls lb. .25 - .35
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb. lots, works lb. .33½- —
less 500 lbs., works lb. .38½- —
Menadione, USP, bots gram .06 - .06¼
Menthol, natural, USP, Brazilian, cs lb. 6.50 - —
Chinese, cs lb. 7.50 - —
synthetic, USP, racemic, cns. lb. 6.80 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .34 - —
less ton lots, same basis lb. .36 - —
Mercaptobenzothiazyldisulphide, bgs., fib. dms., ton lots, works, frt. alld lb. .42 - —
less ton lots, same basis lb. .44 - —
Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd., fib. dms. lb. 5.29 - —
Iodide, red, NF, fib. dms lb. 6.22 - —
yellow, NF, fib. dms lb. 6.47 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 4.64 - —
Mesityl oxide, dms., c.l., dlvd lb. .13¼- .14¼
l.c.l., dlvd lb. .14 - .15
tanks, dlvd lb. .11½- .12½
Metaldehyde, dms., works lb. .95 - 1.25
Metachloranilin, dms., works lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. .73½- —
l.c.l., works lb. .74½- —
Metanitroanilin, dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.54 - —
Metaphenylenediamine, kgs., frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .78 - —
l.c.l., same basis lb. .80 - —
tankcars, same basis lb. .76 - —
Metatolylenediamine, fib. dms., frt. alld lb. .94 - 1.00
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt alld gal. .79 - —
tanks, frt alld gal. .70 - —
Prices on natural methanol W. of Miss., 3c. higher.
synthetic Zone 1, dms., c.l., frt. alld gal. .44 - .46
l.c.l., frt. alld gal. .49 - .50
tanks, frt. alld gal. .32 - .34
Zone 2, dms., c.l., frt. alld gal. .49½- .51½
l.c.l., ex whse gal. .51 - .55
tanks, frt. alld gal. .35½- .37½
Synthetic methanol zones are:—Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of the U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt alld, 50-lb or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib. dms., same basis lb. 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd., zone 1 lb. .19½- —
l.c.l., same basis lb. .20 - —
hydrogenated non-ret, dms., c.l., dlvd, zone 1 lb. .20 - —
l.c.l., same basis lb. .20½- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetone, natural, dms., c.l., E. of Miss., frt. alld. gal. .57 - —
l.c.l., same basis gal. .68 - —
tanks, same basis gal. .45 - —
Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.
synthetic, dms., c.l., works, frt. alld. E gal. .66½- —
l.c.l., works, frt. alld. E. gal. .72¼- —

Methyl acetone, synth., tanks, works, frt. alld. E. gal. .54¼- —
Methyl acetone synth East territory in all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all States West of those four.
Acrylate, dms., c.l., and truckload, works lb. .50 - —
less than truckload works lb. .50½- —
tanks, works lb. .49 - —
Alcohol (see Methanol).
Anthranilate, cns. lb. 2.35 - 2.40
extra, cns lb. 2.65 - 4.40
Benzoate, cns., dms lb. .53 - .58
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl., works lb. .18 - —
tanks, multi-unit works lb. .14 - —
single-unit, works lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .39 - .48
other consumers or service men, cyls. dlvd lb. .486 - —
Cinnamate, ens lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Formate refd., dms lb. .35 - .40
tech., non-ret, dms., any quantity, works lb. .08 - —
tanks, works lb. .07 - —
Iodide, bots., works lb. 3.80 - 3.95
cbys. works lb. 3.00 - 3.25
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, dms., c.l., and truckload, works lb. .36½- —
less than truckload, works lb. .37 - —
tanks, works lb. .35 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Roseanilin chloride, NF, fib. dms. lb. 5.40 - —

Methyl salicylate, USP, dms., 500 lbs. lb. .50 - —
cns., 50 lbs. lb. .55 - —
Testosterone, USP, 100 gms. gm. 1.75 - —
Methylal, refined, 95%, dms., c.l., works lb. .11 - —
l.c.l., works lb. .12 - —
tanks, works lb. .09 - —
Methylamyl acetate, dms., c.l., dlvd. lb. .16¾- —
l.c.l., dlvd. lb. .17¾- —
tanks, dlvd. lb. .15 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .78 - —
2,000 lbs., and more, same basis lb. .80 - —
smaller lots, frt. alld. on 100 lbs. .85 - .97
standard vis., (15-400 cps.), 50-lb. bgs., c.l., frt. alld lb. .68 - —
2,000 lbs. and more, same basis lb. .68 - —
smaller lots, frt. alld. on 100 lbs lb. .72 - .85
Methylene blue, 100-lb. lots, kgs., frt. adjusted lb. 3.25 - 3.60
smaller lots, kgs., same basis lb. 3.40 - 3.60
Chloride, indust., dms., c.l., dlvd. E lb. .13½- —
Methylethylketone, dms., c.l., dlvd. lb. .12¾- .13¾
l.c.l., dlvd. lb. .13½- .14½
tanks, dlvd. lb. .11 - .12
Methylethylpyridin, dms., c.l., works. lb. .47½- —
l.c.l. works lb. .48 - —
tanks, works lb. .46 - —
Methylheptin, carbonate, bots lb. 35.00 -45.00

Methylionone, A, cns lb. 6.55 - 8.80
D, cns. lb. 7.50 - 9.55
prime, cns. lb. 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).
Ketone, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd. lb. .15½- —
tanks, dlvd. lb. .13 - —
Methylnaphthyl, ketone, cans lb. 3.00 - 3.75
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, 250-lb. dms., dlvd lb. 1.60 - 1.70
less than 250 lbs., dms., dlvd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04½- —
roofing, 20 to 80 mesh, works lb. .03½- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt. alld. E lb. .06½- —
extra fine, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt. alld. E lb. .06½- —
paint nr lacq., bgs., c.l., works, frt. alld., E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
rubber, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —



FACT No. 1 ... *Price and Price Stability*

The price trend of sorbitol continues downward as production is increased. Its price stability alone makes it the "best buy" in polyols.

FACT No. 2 ... *Performance*

Sorbitol and other related Atlas polyols frequently outperform similar polyhydric alcohols. Sorbitol has a better taste, greater purity. It is utilized by the human body as food. Sorbitol has a narrower humectant range than other conditioners and is chemically stable.

Used in cosmetics, tobacco, glue compositions, protective coatings, food, pharmaceuticals, and other products, sorbitol has proved its quality characteristics.

FACT No. 3 ... *Availability*

Sorbitol, derived from an almost inexhaustible supply of sugar, is available in almost unlimited quantities.

Write today for the valuable 22-page Atlas sorbitol book containing charts, usage tables, and other helpful data. Personal technical assistance is available at your request.

Industrial Chemicals Department

ATLAS POWDER COMPANY

WILMINGTON 99, DELAWARE • OFFICES IN PRINCIPAL CITIES

ATLAS POWDER COMPANY, CANADA, LTD., BRANTFORD, CANADA

Mica, Wet-Ground, White—Oil, Castor, USP

Mica, wet-grd., white, extra, fine, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
Mica, wet-grd., W. of Miss. R., W. of Rockies, 1c. higher. ½c. higher.
Milk powder, skimmed, roller, bbls., c.l lb. .17 - .18¾
spray, bbls., c.l lb. .17 - .19
whole, roller, bbls., c.l lb. No prices.
spray, bbls., c.l lb. .40 - .46¾
Sugar, crude, bgs., c.l., works lb. .18 - —
edible, bgs., works, 30,000-lb. lots lb. .24 - —
2,000-lb. lots lb. .24¾- —
200-1,800-lb. lots lb. .25¼- —
Edible milk sugar in fib. dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, works lb. .29 - —
2,000-lb. lots, works lb. .29¾- —
200-1,800-lb. lots, works lb. .30¼- —
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap, industrial, tanks, New York gal. .28 - —
New Orleans gal. .26 - —
Molybdenum metal, 99% Mo. powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E. lb. .10½- .11½
l.c.l., same basis lb. .11½- .12½
tanks, same basis lb. .09 - .10
Monochlorobenzene prices in the West, 1¾c. higher.
Monoethanolamine, dms., c.l., frt. alld. E. lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylalphanaphthylamine, dms., works lb. .88 - —
Monoethylamine dms., c.l., frt. alld. E., basis 100% lb. .32 - —
l.c.l., frt. alld. E., basis 100% lb. .33 - —
tanks, frt. alld., E., basis 100% lb. .30¼- —
Monoethylaniline dms., c.l., frt. alld. lb. .51 - .57
l.c.l., frt. alld lb. .52 - .58
tanks, frt. alld lb. .50 - .56
Monoethylorthotoluidin, bbls lb. .80 - —
Monoisopropylamine, dms., c.l., frt. alld. E lb. .29½- —
l.c.l., same basis lb. .29¼- .30½
tanks, same basis lb. .28½- —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate, monobasic.
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb 48 - —
Morphine, cns oz.12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz. 9.90 - 9.95
Hydrochloride, NF, cns oz. 9.90 - 9.95
Sulphate USP, cns oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .80¾- —
l.c.l., dlvd. E lb. .61¾- —
tanks, dlvd. E lb. .59 - —
Mullein flowers, cs lb. 1.15 - 1.20
Leaves, bls. lb. .21 - .25
Musk, natural, Tonquin grains, bots. oz.40.00 -85.00
synthetic, ambrette, 100 lbs., fib. dms lb. 5.60 - —
25 lbs., cns lb. 5.70 - —
5 lbs., cns lb. 5.85 - —
ketone, 100 lbs., fib. dms lb. 5.35 - —
25 lbs., cns lb. 5.45 - —
5 lbs., cns lb. 5.60 - —
xylol, 100 lbs., fib. dms lb. 1.65 - 1.75
25 lbs., cns lb. 1.75 - 1.78
5 lbs., cns lb. 1.85 - 1.90
Musk root, bls lb. 1.60 - 1.65
Mustard seed, Calif. brown bgs., f.o.b. source lb. .12 - —
Danish, yellow, bgs lb. .11½- .12
Dutch, yellow, bgs lb. .11 - .11½
English, yellow, bgs lb. .13½- .14
German, yellow, bgs lb. .17 - .17½
Montana, brown, bgs., f.o.b. source, Sept.-Oct. shipment lb. .08 - —
oriental, bgs., source, Sept.-Oct. shipment lb. .08 - —
yellow, bgs., source, Sept.-Oct. shipment lb. .11 - —
Myrobalans, J1, assorted, bgs., ex dock ton.52.00 -56.00
crushed, bgs., ex dock ton.76.00 -77.00
J2, bgs., ex dock ton. No prices.

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, tanks, frt. alld lb. .0625- .0700
78°, dms., c.l., same basis lb. .0765- .0840
l.c.l., same basis lb. .0790- .0865
tanks, same basis lb. .0675- .0750
Naphthalene, dom., refined, industrial, bbls., c.l., frt. equald lb. .11¾- —
bgs., c.l., same basis lb. .11¼- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .14½- —
cs., 50 lbs., c.l., same basis lb. .14¾- —
1-lb. pkgs., c.l., same basis lb. .17 - —
imported, crude, 78° large lots. lb. .07¼- .08
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib. dms., 100-kilo lots gm. .90 - —
1-kilo lots gm. 1.50 - —
Nephelin syenite, glass, 24 mesh. bulk, Rochester, N. Y. ton.14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y. ton.18.25 - —
Nephelin syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.25 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel, acetate, bbls., dlvd lb. .60 - .60½
Carbonate, bbls., dlvd lb. .66¼- —
Chloride, bbls., dlvd lb. .34½- —
Cyanide, bots., dms lb. 1.75 - 2.00
Formate, bbls., ton lots, frt. alld. lb. .58½- .59½
Metal, electro cathodes, cs., works lb. .56½- —
Nitrate, bbls., works lb. .33½- —
Oxide, black, bbls lb. .63¼- —
Sulphate, bgs., c.l., dlvd lb. .26¼- —
l.c.l., dlvd lb. .26¾- —
Nicotinamide, USP, dms., frt. adjusted kilo.12.00 -12.30
Hydrochloride, dms., frt. adjusted kilo.11.50 -11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs. dm.49.40 - —
10-lb. tins, dealers, frt. alld. on cases of 6 tin.10.85 - —
Nikethamide, cbys lb. 7.50 - 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .10½- .11½
l.c.l., frt. alld lb. .11½- .12½
tanks, frt. alld lb. .09½- .10¼
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .33 - —
l.c.l., same basis lb. .34 - .36
18-25 cps., bbls., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - .38
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .42 - —
l.c.l., same basis lb. .43 - .45
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis. lb. .45 - —
l.c.l., same basis lb. .46 - .48
5-6, 40-60 secs., bbls., c.l., same basis lb. .44 - —
l.c.l., same basis lb. .45 - .47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
Nitroethane, dms., dlvd. E. of Rockies, lb. .25 - —
Nitrogen solution, tanks, works, N. ton.120.00 - —
Nitrogenous process, tankage, bulk, works, ammo., ship't unit-ton. 4.90 Nom.
Sewage sludge, bulk, works unit-ton. 3.25 + 40
Nitromethane, dms., l.c.l., dlvd. E. of Rockies lb. .25 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works lb. .33¾- —
tanks, works lb. .32¼- —
Nutgalls, Aleppo, bgs lb. .38 - —
Chinese, bgs lb. .32 - —
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, cs lb. .36 - .37
splits, bgs lb. .35 - .36
West Indian, bgs lb. .32 - .33
Nux vomica, bls lb. .10 - .12
powdered, bbls., bxs lb. .13 - .14

O

Octane, 100°-140°C., industrial grade, group 3, dms., c.l. gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
10°C., b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .419 - —
l.c.l., dlvd. lb. .439 - —
tanks, dlvd. lb. .394 - —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Oil, abies siberica, cns lb. 3.35 - 4.25
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.P.A., bots lb. 3.15 - 3.85
NF, bots. lb. 3.00 - 3.75
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.60 - 2.00
Angelina root, bots lb.120.00 -125.00
seed, bots lb.100.00 -110.00
Anilin (see A).
Anise, USP, Chinese, dms lb. 1.60 - 2.20
Apricot kernel, USP, dms lb. .48 - .65
Avocado, cns., dms lb. 1.00 - 1.10
Babassu, crude, tanks lb. .11½- —
Bay, NF, Puerto Rican, 50-53%, cns lb. 1.65 - 2.20
55-60%, cns. lb. 1.80 - 2.10
West Indian, 50-55%, cns., dms lb. 1.65 - 2.00
Bergamot, artif., cns lb. 2.90 - 6.00
natural, NF, Italian, cns lb.14.70 -16.00
Birchtar, crude, cns lb. 1.10 - —
rectified, NF, cns lb. 2.25 - —
Bois de rose, Brazil, dms lb. 4.00 - 4.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, redist., USP, cns lb. 2.10 - 2.70
tech., dms lb. 1.75 - 2.60
Calamus, cns. lb.20.00 -28.00
Camphor, sassafrassy, dms lb. .26 .42
white, dms lb. .21 .45
Cananga, native, cns lb.10.10 -11.00
rectified, cns lb.11.90 -13.00
Capsicum (see Capsicum oleoresin)
Caraway, NF, cns lb. 4.00 - 4.50
Cardamom, NF, bots lb.45.00 -70.00
Cassia, USP, cns., dms lb. 4.95 6.25
Castor, blown, dms., c.l. lb. .3475- —
l.c.l. lb. .3525- —
dehydrated, bodied, dms., c.l., lb. .3785- —
l.c.l. lb. .3835- —
tanks lb. .3685- —
unbodied, dms., c.l. lb. .3635- —
l.c.l. lb. .3685- —
tanks lb. .3535- —
hydrogenated, bgs lb. .3875- .3925
Nor 1, Brazilian, tanks lb. .3030- Nom.
USP, dms., c.l. lb. .3275- —
l.c.l. lb. .3325- —
tanks lb. .3175- —
refined and deodorized, dms., c.l. lb. .3425- —
l.c.l. lb. .3475- —
tanks lb. .3325- —

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- GERANIUM
- LAVENDER
- LEMON
- LEMONGRASS
- ORIGANUM
- PATCHOULY
- PIMENTA
- PINE NEEDLES
- ROSE BULGARIAN
- SAGE
- THYME
- VETIVERT
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Oil, castor, No. 3, tech., dms., c.l. lb. .3250- —
l.c.l. lb. .3300- —
tanks lb. .3150- —
sulphonated, 50% (45% fat), dms., l.c.l. lb. .18 - .19
75% (60-62% fat), dms., l.c.l. lb. .25 - .26
Cedarleaf, USP, cns., dms. lb. 2.25 - 3.50
Cedarwood, cns., dms. lb. .50 - .65
Celeryseed, bots. lb. 16.50 -21.00
Chamomile, blue, Hungarian, bots. lb. 275.00 -280.00
Chaulmoogra, NF, cns., dms. lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, USP, bots. lb. 30.00 -60.00
leaf, Ceylon, bots. lb. 2.25 - 3.25
Citronella, Ceylon, cns., dms. lb. .75 - 1.75
Java, true, cns. lb. 1.10 - 1.90
Java type, cns. lb. .70 - 1.50
Clove, USP, from buds, cns., dms lb. 5.00 - —
Coconut, crude, tanks, Atlantic ports lb. .09¾- —
Pac. coast lb. .08¾- —
refined, Cochin type, tax incl., dms., l.c.l. lb. .16½- —
deodorized, tax incl., non-ret. dms., l.c.l. lb. .18¾- —
Cod, Newfoundland, dms. lb. .12 Nom.
Codliver, USP, dms. gal. 1.85 - 1.90
Copaiba, cns lb. 2.50 - 4.25
Coriander, USP, bots. lb. 23.50 -28.50
Corn, crude, tanks, works lb. .13¼- —
foots, acid 95%, tanks, N. Y. lb. .03½- —
raw, 50%, tanks, same basis. lb. .01 - —
refined, dms. lb. .17½- .17¾
tanks lb. .16 - —
Costus, bots. oz. 16.50 -23.00
Cottonseed, crude, tanks, South-East lb. .11⅜- —
Valley lb. .11⅜- —
Texas lb. .11¼- —
foots, acid, 95%, tanks, N. Y. lb. .02 - —
raw, 50%, tanks, same basis. lb. .0075- —
salad, dms. lb. .16½- .17
tanks lb. .15⅜- —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.75 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 5.50 - 7.50
Cumin, bots lb. 5.10 - 7.00
Cypress, bots lb. No stocks.
Degras (see D).
Dillseed, India, bots lb. 3.55 - —
Dillweed, domestic, bots., dms lb. 3.75 - 4.50
Dip (see D).
Erigeron, cns lb. 6.50 - 7.50
Eucalyptus, NF, rectified, 80-85%, dms. lb. 1.10 - 1.60
70-75%, dms. lb. 1.00 - 1.45
Fennel, USP, cns. lb. 2.30 - 3.00
Fir, Canada, cns. lb. 2.85 - 3.40
Fish, refined, alkali, dms. lb. .1610- —
kettle-bodied, dms. lb. .1810- —
light-pressed, dms. lb. .1460- —
tanks lb. .1300- —
Fishliver, crude, for feeds for concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13½
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12½
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12½
40,000 to 55,000 A units per gm., dms 1,000,000 units. .12 - .13
prime, nat. or conc., 100,000 A units per gm., dms. 1,000,000 units. .13 - .15
200,000 A units per gm., dms. 1,000,000 units. .15 - .17
300,000 A units per gm., dms. 1,000,000 units. .15 - .17
400,000 A units per gm., dms. 1,000,000 units. .15 - .17
500,000 A units per gm., dms. 1,000,000 units. .15 - .17

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

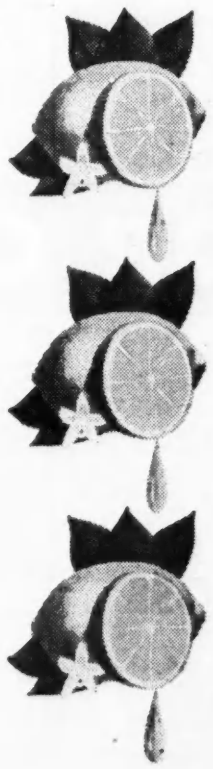
Fusel (see F).
Garlic, pure, bots. oz. 6.50 - 8.00
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. lb. 16.50 -26.00
Bourbon, cns. lb. 15.00 -24.50
Turkish (see Oil, palmarosa).
Ginger, dist., bots. lb. 16.50 -19.00
Grapefruit, dms. lb. 2.25 - 2.60
Grease, No. 1, dms. lb. .10 - .11
extra, winter, strained, dms. lb. .12½- .13¼
prime, burning, dms. lb. .13 - .14
Guaiacwood, cns. lb. 1.75 - 2.10
Hemlock, cns lb. 2.20 - 3.15
Juniper berry, NF, VIII, bots. lb. 2.45 - 4.00
twice rectified, bots. lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. lb. .63 - 1.00
Lard (see Oil, grease).
Laurel, dms., cns. lb. 9.75 -12.50
Lavandin, dms., cns. lb. 3.00 - 4.50
Lavender, flower, USP, French, 30-32% ester, cns. lb. 3.75 - 5.45
38-40% ester, cns. lb. 4.75 - 6.75
40-42% ester, cns. lb. 6.50 - 8.50
Spike, Spanish, cns. lb. 1.65 - 2.95
Lemon, USP, Calif., cns., dms. lb. 5.85 - 6.00
Messina, cns. lb. 4.50 - 8.20
Lemongrass, cns., dms. lb. 1.50 - 3.05
Lignaloe wood, Mexican, cns. lb. 4.35 - 4.89
Lime, distilled, Mexican, cns. lb. 7.50 - 8.25
West Indian, cns. lb. 7.50 - 8.50
expressed West Indian, cns. lb. 7.50 - 9.50
terpeneless, bots. lb. 45.00 -65.00
Linseed, raw, dms., c.l., Zone 3 lb. .1820- —
l.c.l., Zone 3 lb. .1870- .1920
tankcars lb. .1720- —
tankwagon lb. .1750- —
Boiled, linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms. lb. 3.75 - 5.25
Mandarin, Floridian, dms. lb. 4.00 - 5.00
Italian, cns lb. 7.00 - 8.75
Menhaden, crude, tanks, Balto. lb. .07½ Nom.
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms. lb. .23½- .24
synthetic, cns., dms. lb. 1.60 - 1.70
Neatsfoot, 15°, dms. lb. .37 - .38
20°, dms. lb. .36 - .37
30°, dms. lb. .34 - .35
Neroli, NF, French, bots. lb. 175.00 -195.00
Haitian, bots. lb. 90.00 - —
Niaouli, cns lb. 2.20 - 3.00
Nutmeg, USP, dist., East Indian, cns., dms. lb. 4.00 - 5.75
West Indian, cns., dms. lb. 3.75 - 4.75
Ocotea cymbarum, dms. lb. .72 - 1.10
Oiticica, liquid, dms. lb. .28 - .28¼
tankcars lb. .26 - .26¼
Oleo, extra, dms. lb. .16½- .17
Olibanum, bots. lb. 5.50 - 7.65
extra fine, bots. lb. 8.00 - —
Olive, commercial, dms. lb. 1.90 - 2.00
edible, dms., duty paid lb. 2.10 - 2.25
foots, dms. lb. .16¾- .17
Orange, sweet, dist., cns. lb. .80 - 1.10
expressed, USP, Brazilian, cns., dms. lb. No stocks.
Calif., cns lb. 1.75 - 2.75
Florida, cns., dms. lb. 1.75 - 2.25
Messina, cns. lb. 4.00 - 5.85
West Indian, cns. lb. 2.75 - 3.35
sesquiterpeneless, bots. lb. 223.00 - —
Origanum, Spanish, cns. lb. 2.15 - 2.75
Palm, clarif., dms. lb. .13¼- —
Palmarosa, cns. lb. 7.00 - 8.00

Oil, paraffin, pale, 100-110 vis., at 100°F, tanks, East Coast refinery gal. .14 - —
Patchouli, dms. lb. 7.75 -17.00
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast. lb. .13 - —
refined, dms. lb. .17½- .17¾
tanks lb. .16 - —
Pennyroyal, USP, imported, cns., lb. 3.00 - 4.50
Peppermint, natural, dms. lb. 7.25 - 7.85
redist., USP, dms. lb. 7.75 - 8.30
Persic, USP (see Oil, apricot kernel).
Perilla, crude, dms lb. No stocks.
Petitgrain, Paraguay, cns. lb. 3.10 - 3.75
Pimento berry, NF, dms. lb. 4.75 - 5.75
leaf, cns lb. 2.55 - 2.85
Pine, dest., dist., dms., extra, c.l., works gal. .75½- —
l.c.l. gal. .76½- —
whse. gal. .95½- —
steam dist., dms., ex whse., N.Y.C lb. .127 - .128
Pineneedle, Siberian (see Oil, abies Siberica).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .21 Nom.
Red (see Acid, oleic).
Rice, bran, clarif., dms., l.c.l. lb. .17 - .17½
crude, tanks, dlvd. E lb. .12 - —
refd., salad, tanks, dlvd. E lb. .16 - —
Rose, natural, Bulgarian, bots oz. 42.25 -62.25
Rosemary, Spanisn, tech., cns., dms lb. .60 - .85
USP, cns., dms lb. .75 - 1.00
Rue, bots lb. 2.25 - 2.55
Safflower, dms., c.l., works lb. .18½- —
tanks, works lb. .17½- —
Sage, clary, bots. lb. 22.00 -23.00
Dalmatian, cns. lb. 10.50 -13.75
Spanish, cns. lb. .90 - 2.25
Sandalwood, NF, cns. lb. 9.75 -11.75

Oil, sardine, crude, tanks, Pac. coast lb. No stocks.
Sassafras, artificial, cns., dms. lb. .60 - .85
natural Brazilian (See Oil, ocotea cymbarum).
domestic, USP, cns., dms. lb. 2.00 - 2.20
Savin, cns lb. 2.75 - 3.00
Savory, cns lb. No stocks.
Sesame, refd., dms., l.c.l. lb. .37 - .38
Shingle stain, tar distillate, dms., c.l., works lb. .31 - —
l.c.l., works lb. .33 - —
tanks, works lb. .21 - —
Snakeroot, Canada, cns. lb. 31.00 -40.00
Soybean, crude, tanks, mills lb. .09½- —
foots, acid, 95%, tanks, N. Y. lb. .03 - —
raw, 50%, tanks, same basis, lb. .01¾- —
refined, alkali, dms., c.l. lb. .1375- —
l.c.l. lb. .1450- .1500
tanks lb. .1275- —
clarified, dms., c.l. lb. .1300- —
l.c.l. lb. .1350- .1400
tanks lb. .1200- —
salad, dms. lb. .13¾- .14¼
tanks lb. .12¼- —
Spearmint, USP, dms lb. 7.50 - 8.75
Sperm, bleached, winter, 45°, dms lb. .1630- .1660
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .1510- .1560
tankcars lb. .1400- —
Spruce, cns., dms lb. 2.20 - 3.15
Sweet birch, USP, Northern, cns. lb. 4.95 - 8.00
Southern, cns lb. 2.00 - 3.50
Tall, crude, tanks works lb. .03 - .03¼
refined, dms., c.l., works lb. .06½- .07½
l.c.l. works lb. .06¾- .07¾
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms. lb. .10 - .10½
Tansy, dms. lb. 8.75 - 9.00

Oil, tar, pine, com'l., dms., extra, c.l., works lb. .0488- —
l.c.l., works lb. .0545- —
whse. lb. .0655- —
tanks, works lb. .041 - —
rectified, N.F., l.c.l., dms. ex. tra, works, South gal. .67 - —
whse., N.Y.C. gal. .77 - —
Tar acid (see T).
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms. lb. 1.90 - 3.75
white cns lb. 2.25 - 4.00
Tung, dom., tanks, mills lb. .39½ Nom.
imported, dms., c.l. lb. .41 - —
l.c.l. lb. .41½ - —
tanks lb. .39½- .39¾
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms. lb. .32 - .65
Vetiver, Bourbon, cns lb. 28.50 -30.00
Haitian, cns lb. 20.50 -26.00
Java, cns lb. 35.00 —
Wheat germ, 5-gal. dms gal. 10.00 -13.00
White mineral, tech., 50-65% vis., dms., c.l. gal. .51½- .54½
l.c.l. gal. .56½- .57½
65-75 vis., dms gal. .52½- .55½
l.c.l. gal. .57½- .58½
NF, 80-90 vis., dms., c.l. gal. .53½- .56½
l.c.l. gal. .58½- .59½
125-135 vis., dms., c.l. gal. .59½- .62½
l.c.l. gal. .64½- .65½
145-155 vis., dms., c.l. gal. .66 - .68½
l.c.l. gal. .71 - .71½
175-185 vis., dms., c.l. gal. .69½- .73
l.c.l. gal. .74½- .76
USP, 200-210 vis., dms., c.l. gal. .72½- .75
l.c.l. gal. .77½- .78
345-355 vis., dms., c.l. gal. .77 - .80
l.c.l. gal. .83 - .85

Oil, Castor, No. 3—Oil, White Mineral



FOR Superior FLAVOR

FOR Unmatched CLARITY

FOR Consistent UNIFORMITY

8 OUT OF 10 BUY...

EXCHANGE OIL of LEMON

When any product sells four times as well as all of its competition combined, that's a sure sign of quality. No product can hold such a dominant sales position year in and year out unless it fulfills all of the exacting requirements of thousands of quality-conscious buyers. Exchange Oil of Lemon does just that...with a consistency and regularity that have made it the standard in its field. So little Lemon Oil goes so far, why risk buying anything but the best?

Always specify it by the brand name when you order—

Distributed in the United States exclusively by
DODGE & OLCOTT, INC.
180 Varick Street, New York 14, N. Y.
FRITZSCHE BROTHERS, INC.
76 Ninth Avenue, New York 11, N. Y.

Exchange
OIL OF
LEMON
U.S.P.

CALIFORNIA FRUIT GROWERS EXCHANGE
PRODUCTS DEPARTMENT
ONTARIO, CALIFORNIA
Producing Plant:
Exchange Lemon Products Co.
Corona, California

Oil, Wintergreen—Pepper, Red, Louisiana Longs

Oil, wintergreen, USP, nat., Northern, cns	lb.	5.75 - 14.50
Southern, cns	lb.	3.25 - 19.50
synthetic (see Methyl salicylate).		
Wood (see Oil, tung).		
Wormseed, NF, cns	lb.	7.65 - 8.60
Wormwood, cns	lb.	6.50 - 7.50
Ylang-ylang, Bourbon, bots	lb.	18.00 - 30.00
extra, bots	lb.	38.00 - 40.00
Madagascar, bots	lb.	No stocks.
Oleostearin, bbls	lb.	.12 - .12½
Olivine aggregate, c.l., mines	ton.	7.00 - 9.50
crushed 8 mesh, bulk, c.l. works	ton.	10.00 - —
paper, bgs, c.l., works	ton.	12.00 - —
Opium, USP, cns	lb.	19.20 - 19.45
gran., USP, cns	lb.	21.65 - 21.90
powd., USP, cns	lb.	21.65 - 21.90
Orange, cadmium, lithopone, bbls., frt. alld. E. of Rockies	lb.	1.65 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.32 - —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.		
Dinitroanilin toner	lb.	1.30 - —
Mineral, American, bbls., l.c.l., ship't point, frt. alld.	lb.	.2490- —
Molybdated, bbls	lb.	.45 - —
Orthonitroanilin toner, kegs	lb.	1.15 - —
Persian, bbls	lb.	.65 - —
Orange flowers, bls	lb.	.12 - .15
Peel, bitter, Haitian, bls	lb.	.11 - .14
sweet, bls	lb.	.14 - .16
Oregano, Italian, bgs	lb.	.14 - .18½
Mexican, bgs	lb.	.18½- .19
Portuguese, bgs., new crop	lb.	.18½- .19
Orris root, Florentine, bls	lb.	.20 - .22
powdered, bbls., bxs	lb.	.25 - .26
Verona, bls	lb.	.14 - .15
powdered, bbls., bxs	lb.	.19 - .24
Orthoaminobiphenyl, dms., c.l., works	lb.	.32½- —
l.c.l., same basis	lb.	.33 - —
tanks, same basis	lb.	.37 - —
Orthoanisidin, bbls	lb.	.88 - —
Orthochloroanilin, dms., c.l.	lb.	.65 - —
l.c.l.	lb.	.67 - —
Orthochlorobenzaldehyde, dms., works	lb.	1.18 - —
Orthochloroparanitroanilin, dms., dlvd.	lb.	.86 - —
Orthochlorophenol dms., c.l., frt. equald.	lb.	.34½- —
l.c.l., same basis	lb.	.35½- —
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt. equald	lb.	.198 - —
l.c.l., same basis	lb.	.201 - —
ret. dms., c.l., same basis	lb.	.195 - —
l.c.l., same basis	lb.	.20 - —
29° C, non-ret. dms., c.l., same basis	lb.	.188 - —
l.c.l., same basis	lb.	.191 - —
ret. dms., c.l., same basis	lb.	.185 - —
l.c.l., same basis	lb.	.19 - —
24-29° C, non-ret. dms., c.l., same basis	lb.	.178 - —
l.c.l., same basis	lb.	.181 - —
tanks, same basis	lb.	.165 - —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.11¾- .12¾
l.c.l., same basis	lb.	.13¾- .14¾
tanks, same basis	lb.	.10¼- .11¼
Orthoisopropyl N phenylcarbamate (see IPC).		
Orthonitroanilin, dms	lb.	.86 - .96
Orthonitrochlorobenzene, dms	lb.	.80 - .91
Orthonitrobiphenyl tech., dms., c.l., works	lb.	.14¼- —
l.c.l., works	lb.	.15 - —
tanks, works	lb.	.13 - —
Orthonitroparachlorophenol, cns	lb.	.75 - —
Orthonitrophenol, bbls. works	lb.	.84 - —
Orthonitrotoluene, dms., c.l., frt. alld.	lb.	.10 - —
l.c.l., frt. alld	lb.	.11 - —
tanks, frt. alld	lb.	.09 - —
Orthophenetidin, dms., works	lb.	1.00 - —
Orthophenylphenol, fib. dms., works.	lb.	.20 - .44
Orthotoluidin, dms., c.l., works	lb.	.23 - —
l.c.l., same basis	lb.	.24 - —
tanks, same basis	lb.	.22 - —
Osage orange, crystals, No. 1, bbls., l.c.l	lb.	.40 - —
extract, liquid, No. 1, bbls., l.c.l.	lb.	.19 - —
Orthotolidin (see Tolidine Base).		
Ouabaine, USP, bots	gram.	3.00 - 4.00
Ox gall, dried, gran. or powd., dms., 5 lbs. or more	lb.	4.35 - —
Oxyquinolin sulphate, cns., 100-lb. lots, works	lb.	4.75 - 5.00
smaller lots, works	lb.	5.26 - 5.36

P

Pancreas substance, assay 1:75 bots.	lb.	5.75 - 6.25
Pancreatin, USP, bots	lb.	2.50 - 3.00
Panthenol, bots., works, frt. adjust.	kilo.	90.00 - —
Papain, powd., NF, African, cs.	lb.	6.45 - 9.00
Ceylon, cs	lb.	5.00 - 6.00
Papaverine, natural or synthetic hydrochloride, USP, cns., 1,000 oz. lots	oz.	5.00 - —
smaller lots	oz.	5.05 - 5.20
Sulphate, cns	oz.	7.10 - 7.35
Paprika, Algerian, bgs	lb.	.27 - .28
Czech, bgs	lb.	.26 - .27
Moroccan, bgs	lb.	.24 - .25
Spanish, bgs., new crop	lb.	.26 - .30
Para-anisidin, dms., works	lb.	.88 - —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted	lb.	17.50 - 21.00
Para-aminophenol, dms., frt. alld.	lb.	.97 - .98
Parachloroanilin, dms., frt. alld., E. of Miss	lb.	.75 - —
Parachlorobenzaldehyde, dms., works.	lb.	1.34 - 1.37
Parachloro-orthonitroanilin, dms., frt. alld	lb.	.73 - .82
Parachlorophenol, dms., c.l., frt. equald	lb.	.34½- —
l.c.l., same basis	lb.	.35½- —
Paracresol, 98%, dms., dlvd	lb.	.50 - —
Methylether, cns	lb.	2.15 - 2.50
Paracymene, dms., works, 50 gals. or more	gal.	2.50 - —
smaller lots	gal.	3.00 - —
Paradibromobenzene, bgs., 500-lb. lots.	lb.	.55 - —
Paradichlorobenzene, dms., c.l., works	lb.	.14½- .15½
l.c.l., same basis	lb.	.17 - .20
Paraffin, crude, scale, white, 120 AMP, solid, ctns., bbls. c.l., ref'y	lb.	.07 - —
tanks, same basis	lb.	.06 - —
fully refined, 122-124 ASTM, loose, c.l., ref'y	lb.	.0745- —
125-127 ASTM, loose, c.l., ref'y.	lb.	.0745- —
130-132 ASTM, loose, c.l., ref'y.	lb.	.0755- —
132-134 ASTM, loose, c.l., ref'y.	lb.	.0755- —
135-137 ASTM, loose, c.l., ref'y.	lb.	.0755- —
Paraffin prices in bags and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.		
Paraformaldehyde, tech., 94-95%, powd., dms., c.l., N. Y. delivery	lb.	.16½- —
works	lb.	.14½- —
10,000 lbs., N. Y. delivery.	lb.	.18 - —
works	lb.	.15½- —
1,000 lbs., N. Y. delivery.	lb.	.19 - —
works	lb.	.16½- —
less than 1,000 lbs., N. Y., delivery	lb.	.21 - —
works	lb.	.18½- —
91-92%, flake, fib. dms., c.l., N. Y. delivery	lb.	.14½- —
works	lb.	.12½- —
10,000 lbs., N. Y. delivery.	lb.	.16 - —
works	lb.	.13½- —
1,000 lbs., N. Y. delivery.	lb.	.17 - —
works	lb.	.14½- —
less than 1,000 lbs., N. Y. delivery	lb.	.19 - —
works	lb.	.16½- —
USP X, fib. dms., c.l., dlvd. N.Y.C.	lb.	.198 - —
10,000-lb. lots	lb.	.198 - —
1,000-lb. lots	lb.	.198 - —
smaller lots	lb.	.208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works	lb.	.16½- —
l.c.l., works	lb.	.17½- —
tanks, works	lb.	.15 - —
Paranitroanilin, dms., c.l., works, frt. alld.	lb.	.47½- —
l.c.l., works, frt. alld	lb.	.50½- —
Paranitrochlorobenzene, kgs., works.	lb.	.21 - .22
Paranitrophenol, kgs., works, frt. equald	lb.	.46 - —
Paranitrotoluene, kgs., frt. alld.	lb.	.36 - —
Paraphenetidin, dms., works	lb.	.90 - —
Paraphenylenediamine, redistilled, dms., works	lb.	2.30 - 2.80
tech., refd., dms., same basis	lb.	1.10 - 1.30
Paraphenylphenol, bgs., c.l., works.	lb.	.37½- —
l.c.l., same basis	lb.	.42 - —
Para-tertiary-butylphenol, bgs., c.l., works	lb.	.27½- —
l.c.l., same basis	lb.	.28½- —
Parathion, spray powder, 15%, dealers, tins	lb.	.53 - .59
tech., dms., works	lb.	1.50 - —
Paratoluenesulphonamide, flake, bbls., frt. alld.	lb.	.64 - .66
powd., bbls., works	lb.	.70 - —
solid, bbls., frt. alld	lb.	.61 - —
Paratoluidin, flake, bbls., frt. alld.	lb.	.64 - .68
solid, bbls., frt. alld	lb.	.61 - —
Pareira brava root, whole, bgs	lb.	.30 - .35
ground, bxs	lb.	.40 - .48
powder, bxs	lb.	.43 - .50
Paris green, dealer, distributor, dms., c.l., works, frt. alld.		
on 96 lbs. or over	lb.	.35 - .36
l.c.l., same basis	lb.	.39 - .67
Passion flower herb, bls	lb	.25 - .26
Peanut meal, 45%, sacked, mills.	ton.	85.00 - 86.00
Pectin, citrous, NF, powd., bbls	lb.	2.05 - 2.06
tech., powd., bbls	lb.	1.50 - —
Penicillin, crystalline potassium, unlabeled vials, 100,000 units.	vl.	.10 - —
200,000 units	vl.	.12¾- —
500,000 units	vl.	.22½- —
1,000,000 units	vl.	.38 - —
Potassium, bulk, sterile, over 25,000,000,000 unit lots	100,000 units.	.02½- —
tablet grade, over 25,000,000,000 unit lots	100,000 units.	.02¼- —
Procaine, bulk, over 25,000,000,000-unit lots	100,000 units.	.02½- .02¾
Sodium, unlabeled, vials, 100,000 units	vl.	.10½- —
200,000 units	vl.	.13¼- —
500,000 units	vl.	.23¾- —
1,000,000 units	vl.	.40 - —
2,000,000 units	vl.	1.03 - —
bulk, over 25,000,000,000 unit lots	100,000 units.	.02½- —
Pennyroyal herb, bls	lb.	.45 - .50
Pentachlorophenol, dms., c.l., works, frt. equald	lb.	.21 - —
l.c.l., same basis	lb.	.24 - .29
truckload, 20,000 lbs. min. same basis	lb.	.21¼- —
Pentaerythritol, tech., bgs., c.l., works	lb.	.33 - —
l.c.l., works	lb.	.34 - .36
Di- and -tri-isomers (see Dipentaerythritol and Tripentaerythritol).		
Pentane, industrial tanks, group 3.	gal.	.12 - .13¼
Pepper, black, spot, bgs	lb.	1.25 - —
March shipment, bgs	lb.	1.07 - —
April shipment, bgs	lb.	1.02 - —
May shipment, bgs	lb.	1.00 - —
red, Carolina, longs, bgs	lb.	.31 - .32
Haitian, bgs	lb.	.26 - .27
Japanese hontakas, bgs	lb.	.35 - .36
birdseyes, bgs	lb.	.40 - .42
Louisiana longs, bgs	lb.	.30 Nom.

PVO

CASTOR OIL

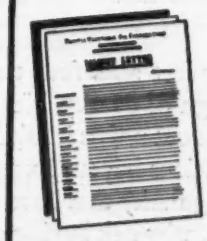
FOR NON-YELLOWING HIGH GLOSS PROTECTIVE COATINGS

Various grades of Castor Oil are noted for having the better attributes of other oils used in the protective coatings industry without at the same time having some of the shortcomings.

Dehydrated Castor Oils used in the varnish kettle make possible manufacture of top quality spars, at the same time giving good initial color as well as color retention.

Prime Cold Pressed (PCP) or Bleached Refined (BR) grades, when dehydrated in situ by the varnish maker, make possible good savings in raw material cost compared to Wood Oil cooks of similar type.

Blown Castor Oils are useful where light colored semi-drying compounds are to be formulated . . . caulking compounds, mastics, plasticizers for lacquers and synthetics. Several special blown grades make ideal hydraulic fluids with proper formulation.



PVO MARKET LETTER

We will be happy to send you this valuable analysis of week-by-week vegetable and marine oil market conditions. Just drop us a postcard with your name and address, or phone our nearest representative.

For price data and supplementary information please contact our San Francisco office or our nearest representative as listed below:

BALTIMORE—W. R. McClayton
BOSTON—Raw Materials Co.
CHICAGO—Daniel G. Hereley Co.
CINCINNATI—Desks & Miller, Inc.
CLEVELAND—The Donald McKay Smith Co.
DALLAS—W. W. Richerson Co.
DETROIT—Geo. E. Moser & Sons, Inc.
HOUSTON—E. B. McCullough Co.
LOS ANGELES—California Flaxseed Products Co.
LOUISVILLE—B. H. Boyet & Co. —Desks & Miller, Inc.
MONTREAL—B. & S. H. Thompson & Co., Reg.
NEW ORLEANS—Russell Chemical Co.
NEW YORK—Garrigues, Stewart & Davies, Inc.
PHILADELPHIA—Baker Industrial Oils
PORTLAND—Western Chemicals, Inc.
SEATTLE—Western Chemicals, Inc.

PVO OILS VARNISH PAINT & PACIFIC VEGETABLE OIL CORP.

62 TOWNSEND STREET • SAN FRANCISCO 7, CALIFORNIA

Pepper, red, Mississippi sports, bgs., source	lb.	.31 -	.31½
Mombasa, bgs	lb.	.53 -	.54
Turkish, bgs	lb.	.26 -	.27
Nigerian, caps, bgs	lb.	.18 -	.30
Sierra Leone, bgs	lb.	.46 -	.47
White, bgs	lb.	1.95 -	—
Peppermint leaves, USP, dms., bls.	lb.	.50 -	.52
imported, bls	lb.	.80 -	.90
Pepsin, NF, 1:3 000 bulk, containers	lb.	3.75 -	3.90
Perchloroethylene, dms., c.l., or truckloads, works	lb.	.11 -	—
dlvd E	lb.	.13½-	—
l.c.l., works	lb.	.11¾-	—
dlvd. E	lb.	.14 -	—
tanks, works	lb.	.10 -	—
dlvd. E	lb.	.12½-	—
Peru, balsam, dms	lb.	1.60 -	1.75
Petrolatum, amber, dms., c.l., refy.	lb.	.05 -	.05⅝
l.c.l., dlvd	lb.	.06¾-	—
tanks, refy	lb.	.03¾-	.04⅛
cream, dms., c.l., refy	lb.	.06⅝-	.07⅛
l.c.l., dlvd	lb.	.08½-	—
tanks, refy	lb.	.05¼-	.05⅝
extra, amber, dms., c.l., refy.	lb.	.05¼-	.05⅞
l.c.l., dlvd	lb.	.07 -	—
tanks, refy	lb.	.04 -	.04⅝
USP, white, lily, dms., c.l., ref'y.	lb.	.06⅞-	.07½
l.c.l., dlvd	lb.	.09⅛-	—
tanks, ref'y	lb.	.05⅝-	.06
Petrolatum, USP, soft, dms., c.l., ref'y.	lb.	.07¼-	.07¾
soft, dms., c.l., ref'y	lb.	.07¼-	.07¾
l.c.l. dlvd	lb.	.08¾-	—
tanks ref'y	lb.	.06 -	.06¼
snow, dms., c.l., ref'y	lb.	.07¾-	.08
l.c.l., dlvd	lb.	.09⅝-	—
tanks, ref'y	lb.	.06¼-	.06½
yellow, soft, dms., c.l., ref'y.	lb.	.05¼-	.05⅝
l.c.l., dlvd	lb.	.06⅞-	—
tanks, ref'y	lb.	.04 -	.04⅝
Petroleum, crude, bulk, at wells, California	bbl.	1.10 -	2.99
Illinois	bbl.	2.44 -	2.87
Kentucky	bbl.	2.42 -	2.83
Louisiana-Arkansas	bbl.	2.08 -	2.90
Montana	bbl.	1.28 -	2.775
Oklahoma-Kansas	bbl.	2.16 -	2.65
Pennsylvania lower field	bbl.	3.82 -	—
Upper field	bbl.	4.25 -	—
Texas, East	bbl.	2.65 -	—
Gulf coast	bbl.	2.38 -	2.95
North, North-Central	bbl.	2.23 -	2.65
Panhandle	bbl.	2.23 -	2.65
West	bbl.	2.33 -	2.65
Wyoming	bbl.	1.28 -	2.873
Fuel oil, bunker C, No. 6, California, heavy tanks, refinery	bbl.	1.95 -	2.13
light, tanks, refinery	bbl.	2.00 -	2.25
eastern, tanks, Albany, N. Y.	bbl.	2.80 -	—
Baltimore, Md.	bbl.	2.48 -	—
Boston, Mass.	bbl.	2.51 -	—
Charleston, S. C.	bbl.	2.34 -	—
Jacksonville, Fla.	bbl.	2.31 -	—
N. Y. Harbor	bbl.	2.45 -	—
Norfolk, Va.	bbl.	2.43 -	—
Philadelphia, Pa.	bbl.	2.48 -	—
Portland, Me.	bbl.	2.54 -	—
Providence, R. I.	bbl.	2.47 -	—
Savannah, Ga.	bbl.	2.34 -	—
Diesel, tanks, refinery, California	gal.	.0825-	.115
Pennsylvania	gal.	.0925-	.0975
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.08375-	—
No. 3	gal.	.08 -	—
N. Y. Harbor, No. 2—	gal.	.091 -	—
group 3, No. 1	gal.	.08625-	.09125
No. 1, straw	gal.	.09 -	.09375
No. 2, straw	gal.	.08375-	.08750
range	gal.	.08875-	.0925
Pennsylvania, western, No. 1	gal.	.1075-	.11625
No. 2	gal.	.1025-	.1075
No. 3	gal.	.1025-	—
Lacquer diluent, California, 170-225 F., b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.167 -	.207
East coast, tanks, N. J. and N. Y. refinery	gal.	.18 -	—
group 3, benzol-type, tanks, refinery	gal.	.13125-	.13625
toluol-type, tanks, refinery	gal.	.12125-	.12625
Mineral spirits, California, tanks, ex tax, f.o.b. San Francisco	gal.	.147 -	.157
East coast, tanks, N.J., N.Y.	gal.	.16 -	—
Group 3, tanks	gal.	.10875-	—
tankwagon, Baltimore	gal.	.175 -	—
Boston	gal.	.18 -	—
Buffalo	gal.	.165 -	—
Newark	gal.	.17 -	—
New York	gal.	.165 -	.17
Philadelphia	gal.	.165 -	—
Pittsburgh	gal.	.19 -	—
Providence	gal.	.185 -	—
Rochester	gal.	.20 -	—
Syracuse	gal.	.21 -	—
Washington, D. C.	gal.	.195 -	—
Naphtha, cleaners, East Coast, tanks, N. J. and N. Y. refinery	gal.	.16 -	—
Group 3, tanks	gal.	.11375-	—
tankwagon, Newark	gal.	.17 -	—
New York	gal.	.17 -	—
Philadelphia	gal.	.165 -	—
high flash, 140°, group 3, refinery, tanks	gal.	.134 -	.1425
high-solvency, 200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery or East Coast	gal.	.25½-	—
25-26° C., m.a.p., tanks, same basis	gal.	.24 -	.30⅛
270-370 b.r., 78-81° C., m.a.p., tanks, same basis	gal.	.29 -	—
49° C., m.a.p., tanks, same basis	gal.	.32 -	—
26-27° C., m.a.p., tanks, same basis	gal.	.24 -	.33
300-400 b.r., 28-32° C., m.a.p., tanks, same basis	gal.	.24 -	.30⅛
340-410 b.r., 36° C., m.a.p., tanks, same basis	gal.	.24 -	—
32° C., m.a.p., tanks, same basis	gal.	.24 -	.30⅛
27° C., m.a.p., tanks, same basis	gal.	.34½-	—
350-425 b.r., 32° C., m.a.p., tanks, same basis	gal.	.30½-	.31⅛
V.M.&P., tanks, ref'y, California, 245-360 b.r., Los Angeles	gal.	.152 -	—
Portland, Ore.	gal.	.158 -	—
San Francisco	gal.	.157 -	—
Seattle, Wash.	gal.	.158 -	—
East coast, N. J., N. Y., tanks	gal.	.17 -	—
Group 3, tanks	gal.	.11875-	—
tankwagon, Boston	gal.	.195 -	—
Newark	gal.	.185 -	—
New York	gal.	.185 -	—
Philadelphia	gal.	.180 -	—
Pittsburgh	gal.	.20 -	—
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	.157 -	—
East coast, N. J., N. Y.	gal.	.17 -	—
Group 3, tanks	gal.	.11875-	—
Stoddard, California, tankwagon, ex-tax, Los Angeles	gal.	.157 -	.197
East coast, N. J., N. Y., tanks	gal.	.16 -	—
Group 3, tanks	gal.	.11375-	—
Pennsylvania, western, tanks	gal.	.17 -	—
Petroleum, solvent, Stoddards, tankwagon, Boston	gal.	.18 -	—
Newark	gal.	.17 -	—
New York	gal.	.17 -	—
Philadelphia	gal.	.19 -	.17
Pittsburgh	gal.	.19 -	—
Syracuse	gal.	.21 -	—
Sulphonate, 70% sulphonic content, non-ret. dms., c.l., works	lb.	.2040-	—
l.c.l., works	lb.	.2065-	—
tanks, works	lb.	.1850-	—
60-62% sulphonic content, non-ret. dms., works	lb.	.18 -	.20
l.c.l., works	lb.	.19 -	.20¼
tanks, works	lb.	.155 -	—
50-55% sulphonic content, non-ret. dms., works	lb.	.16 -	—
l.c.l., works	lb.	.17 -	—
tanks, works	lb.	.135 -	—
Phenobarbital, USP, dms., 100 lbs	lb.	4.50 -	4.70
Phenobarbital-sodium, USP, dms.	lb.	4.50 -	4.70
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld. E. of Rockies.	lb.	.19 -	.20½
l.c.l., same basis	lb.	.19¾-	.21½
tanks, same basis	lb.	.17¼-	.18¾
82-84% (cresol, 16-18%), dms., c.l., same basis	lb.	.19 -	.20½
l.c.l., same basis	lb.	.19¾-	.21½
tanks, same basis	lb.	.17¼-	.18¾
USP, synthetic, dms., c.l., same basis	lb.	.21 -	.21¾
l.c.l., same basis	lb.	.21¾-	.22
tanks, same basis	lb.	.19¼-	.19½
tar, distilled, dms., c.l., same basis	lb.	.19 -	.21
l.c.l., same basis	lb.	.19¾-	.21¾
tanks, same basis	lb.	.17¼-	.19¼
Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots.	lb.	1.10 -	—
smaller lots	lb.	1.12 -	1.17
Phenothiazin, NF, fib. dms., c.l., frt. adjusted	lb.	.50 -	—
over 2,100 lbs., same basis	lb.	.52 -	—
less than 2,100 lbs., same basis.	lb.	.54 -	—
Phenyl acetate, dms., 100 lb. lots. works	lb.	.50 -	—
Salicylate (see Salol)			
Phenylacetaldehyde solution, 50%, bots	lb.	2.40 -	2.70
100%, bots	lb.	4.00 -	4.63
Phenylacetamide 125-lb. dms., works.	lb.	1.10 -	—
smaller dms., works	lb.	1.15 -	1.10
Phenylalamine dextro-laevo, dms., works	lb.	27.00	-37.50
Phenylcarbethoxy pyrazolone, 250-lb. fib. dms., dlvd. E	lb.	3.60 -	—
less than 250-lb. dms., dlvd. E	lb.	4.00 -	—
Phenyldiethanolamine, dms., c.l., frt. alld	lb.	.40 -	—
l.c.l., frt. alld	lb.	.36 -	.41
Phenylethanolamine, dms., c.l., works	lb.	.69½-	—
l.c.l., same basis	lb.	.70 -	—
Phenylethyl acetate, dms	lb.	1.50 -	1.90
Phenylethylphenyl acetate, bots	lb.	3.85 -	4.50
Phenylhydrazin base, CP, bots	lb.	3.00 -	3.07
Hydrochloride, commercial, kgs., works	lb.	1.75 -	—
CP, bots., works	lb.	5.12 -	—
Phenylmethylpyrazolone, (see Methylphenylpyrazolone).			
Phloroglucinol, com'l., fib. dms., works	lb.	7.00 -	—
C.P., bots., fib. dms	lb.	16.00	-17.75
tech., fib., dms. works	lb.	10.45 -	—
Phosgene, 150-lb cyls., works	lb.	.27½-	—
Phosphate defluorinated (see under D)			
Phosphate rock, Curacao, Atlantic ports	ton.	40.00 -	—
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l. mines, 70%-68% b.p.l., c.l., same basis long ton.		4.35 -	4.40
72%-70% b.p.l., c.l., same basis long ton.		3.00 -	—
75%-74% b.p.l., c.l., same basis long ton.		6.00 -	—
77% 76% b.p.l., c.l., same basis long ton.		7.00 -	—
finely ground, 65% b.p.l., basis 30% P_2O_5 minimum, bulk, c.l. mines, short ton.		4.92 -	—
68% b.p.l., basis 31% P_2O_5 minimum mines short ton.		5.28 -	—
70% b.p.l., basis 32% P_2O_5 minimum, mines short ton.		5.83 -	—
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.			
Tennessee, brown, run-of-mine, unground, 27-28% P_2O_5, c.l., mines long ton.		6.45 -	—
30-29% P_2O_5, c.l., mines long ton.		7.21 -	—

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NAME_____
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Phosphorus—Silica Tetrachloride

Phosphorus, red, amorphous cs., lb. .46 - .47
dms. lb. .44 - .45
yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., c.l., works lb. .14 - .17
l.c.l., dms., works lb. .15 - .18
tankcars, works 100 lbs. .11½ - —
Pentasulphide, dms., c.l., works. lb. .12 - —
l.c.l., dms., works lb. .13 - .14
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½ - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - .18
tankcars, works 100 lbs. .11½ - —
Phthalic, anhydride, bgs., c.l., works, frt, equald lb. .22 - .22½
l.c.l., same basis lb. .23 - .23½
tanks, same basis lb. .22 - —
Bbls., ½c., per pound higher.
Phthalimide bbls. works lb. 1.10 - 1.37
Phthalylsulphacetamide, fiber dms., 100-lb. lots lb. 6.00 - —
Pichi leaves, bgs lb. .16 - .17
Picoline (See Alpha, Beta and Gamma Picoline).
Pilocarpine hydrochloride, NF, bots oz. 5.25 - 6.22
Nitrate, USP, bots., vials oz. 5.10 - 6.20
Pimento, Guatemala, bgs lb. .20 - .20½
Jamaica, bgs lb. .28½ - .30
Mexican, bgs lb. .15½ - .15¾
Pinetar, retort, dms., extra, c.l., works lb. .0488 - —
l.c.l., same basis lb. .0545 - —
whse. lb. .0655 - —
tanks, works lb. .041 - —
Pinkroot, b.s lb. 1.75 - 1.80
Piperazine hexahydrate, bots., French Codex kilo. 8.00 - 8.50
Piperidine, 95%, dms., frt. equald. lb. 1.65 - 1.93
93% dms., same basis lb. 1.75 - 2.60
Piperonyl butoxide, dms., dlvd. E lb. 5.00 - 5.30
Cyclonene, dms., dlvd. E lb. 4.20 - 4.50
Pipsissewa herb (see Prince's pine).
Pitch, burgundy, domestic, dms., mc., c.l., l.c.l., works 100 lbs. 10.09 - 10.54
Coaltar, 140°-150° F., m.p., bbls., c.l., works ton 38.00 - 39.00
l.c.l., works ton 41.00 - —
Cottonseed, dms., works. lb. .07½ - .08
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms lb. .06½ - .07
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., l.c.l., works, South 100 lbs. 7.50 - —
Soybean, dms., works lb. .05½ - .06
Tall, dms., works lb. .05½ - .06
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 90.00 - 93.00
Pleurisy root, bls lb .45 - .50
Podophyllium resin, NF, dms lb. 13.20 - 14.00
Pokeroot, b.s lb. .18 - .20
Polyoxyethylene sorbitan monostearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. 45 - —
smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 30,000 lbs., frt. alld. lb. .35½ - .36
10,000-19,999 lbs., same basis lb. .36 - .36½
5,000-9,999 lbs., same basis. lb. .37½ - .38
standard, bgs lb. .35½ - .36
crystals, heat-resistant, bgs., c.l., l.c.l lb. .34 - .34½
standard, bgs., c.l., l.c.l lb. .32½ - .33
Polystyrene in non-returnable fiber dms., ½c. per lb. higher.
Pomegranate root, bark, bgs lb. .60 - .65
Poppy flowers, bgs lb. .80 - 1.00
seed, Argentine, bgs lb. .13½ - .13¾
Czech, bgs lb. .14 - .14¼
Dutch, bgs lb. .14¼ - .14½
Polish, bgs lb. .13¾ - .14
Turkish, bgs lb. .13½ - .13¾
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 10.00 - —
l.c.l., works 100 lbs. 10.75 - —
liquid, 45%, dms., c.l., works. 100 lbs. 4.625 - —
l.c.l., works 100 lbs. 5.125 - —
tanks, works 100 lbs. 4.30 - —
solid, 90%, dms., c.l., works, 100 lbs. 9.40 - —
l.c.l., works 100 lbs. 10.15 - —
regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
l.c.l., works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
l.c.l., same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92%, dms., c.l., works 100 lbs. 7.90 - —
l.c.l., same basis, works 100 lbs. 8.65 - —
Potassium abietate, dms lb. .08 - —
Acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .14½ - —
l.c.l., same basis lb. .14¾ - .15½
Potassium bichromate in drums ¾c. higher.
Bitartrate (see Cream of tartar).
Borate, fran., bgs., c.l., works ton. 180.00 - —
ton lots, ex whse ton. 253.00 - —
less ton lots, ex whse ton. 258.00 - —
Potassium borate in bbls., $24.50 per ton higher.
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots lb. .55 - .57
Bromide, USP, cryst., gran., bbls., kgs lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.50 - —
USP, gran., bbls., dms lb. .16½ - .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works. lb. .09¾ - —
l.c.l., works lb. .10 - .11
powd., dms., c.l., works lb. .10¼ - —
l.c.l., works lb .10¾ - .11¾
export, dms., 1 to 10 tons, works lb. .13 - .13¾
NF, gran., dms lb. .31 - .33
Chloride, USP, cryst., dms lb. .26 - .27
gran., dms lb. .20 - .22
powd., dms lb. .29 - .32
Chromate, tech. bgs lb. .32 - .36
Citrate, USP, gran., dms lb. .37½ - .38½
powder, dms lb. .40½ - .41½
Cyanide, dms., works lb. .55 - —
Fluoborate, fib. dms., c.l., works. lb. .26 - —
l.c.l., works lb. .27 - —
Fluoride, dms., works lb. .24 - —
Gluconate, dms lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP, pellets 100 lb. dms. 1 to 100 dms. lb. .31½ - .36
Potassium hypophosphite, NF, ton lots or less, fib. dms. lb. 1.00 - 1.03
Iodide, dms lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite gran. bbls lb. .21 - —
powd., bbls. lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .42 - —
Trona, Cal unit-ton. .50½ - —
50-51% K_2O, paper bgs., Carlsbad, N. M. ton. 25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
purified, dms lb. .42 - .44
Perchlorate, dms., c.l., works lb. .14 - —
l.c.l., works lb. .14½ - .15½
Permanganate, tech., dms., works. lb. .22½ - .23½
USP dms., works lb. .24¾ - .30¼
Persulphate, dms., c.l., works lb. .18 - .19
l.c.l., works lb. .20 - .22
Phosphate, tetrabasic, bbls., works. lb. .13 - .13½
Prussiate, red, kgs lb. .60 - .63
yellow, dms., ton lots lb. .22½ - —
smaller quantities lb. .23 - —
kegs lb. .28 - —
Silicate, glass, bgs., c.l., works. 100 lbs. 14.70 - —
l.c.l. 100 lbs. 15.20 - —
solution, 29° Be., ret. dms., c.l., works 100 lbs. 4.50 - 4.55
l.c.l., 5 dms. or more, works 100 lbs. 5.25 - 6.30
30° Be, ret. dms., c.l., works. 100 lbs. 4.70 - —
l.c.l., works 100 lbs. 5.20 - —
32.5° Be., ret. dms., c.l., works. 100 lbs. 4.85 - —
l.c.l., works 100 lbs. 5.35 - —
40° Be., ret. dms., c.l., works 100 lbs. 5.35 - —
l.c.l., works 100 lbs. 5.85 - —
40.5° Be, ret. dms., c.l., works. 100 lbs. 6.00 - 6.75
l.c.l., 5 dms. or more, works 100 lbs. 6.75 - 7.50
1-4 dms., works 100 lbs. 7.25 - 7.90
Stannate, dms., frt. alld. E lb. .740 - .796
Silicofluoride, bbls., works lb. .09½ - .10
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90% ton. 36.25 - —
NF VII, cryst., dms lb. .31 - .33
gran., dms. lb. .18½ - —
powder, dms. lb. .19 - —
Sulphocyanide, cryst., NF (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms. lb. .82 - 1.08
tech., works lb. .77 - .79
Titanate, ctns., c.l., works lb. .12½ - —
5 tons, works lb. .12¾ - —
1 ton or less, works lb. .13 - —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO ton. 16.00 - —
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works lb. .35 - .36
Potassium-titanium oxalate, bbls., cs., lb. .85 - .95
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½ - .55
Pregnenolone, bots. gm. 1.50 - 1.75
Acetate, bots. gm. 1.25 - 1.50
Prickly ash bark, bls lb. .30 - .35
Berries, bgs. lb. .70 - .75
Prince's pine herb, bls lb. .55 - .60
Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works lb. 3.75 - 4.00
spot lb. 4.00 - 4.50
Progesterone, USP, 100 gms., bots gm. 1.75 - —
Propane, commercial grade, tanks, group 3 gal. .04 - —
Propionaldehyde, dms., 5,000 lbs. or more, custom contract lb. .60 - —
Propyl aldehyde (see Propionaldehyde)
Gallate, dms., ton lots to 100 lb. lots, works lb. 3.90 - 4.40
Parahydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propylene dichloride, dms., c.l lb. .0845 - .095
l.c.l. lb. .0950 - .1050
tanks lb. .07 - .08
Oxide, dms., c.l., frt. alld. E lb. .19½ - .20½
l.c.l., frt. alld., E lb. .20½ - .21½
tanks, frt. alld E lb. .17½ - .18½
Propyleneglycol, USP, dms., c.l., frt. alld. E lb. .20¼ - .21¼
l.c.l., same basis lb. .21¼ - .22¼
tanks, same basis lb. .18½ - .19½
tech., dms., c.l., frt. alld. E lb. .19¼ - .21¼
l.c.l., same basis lb. .20¼ - .22¼
tanks, same basis lb. .17½ - .18½
Methylether, dms., c.l., frt., equald lb. .21 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .19½ - —
Propylthiouracil, bots., 50 kilos or more kilo. 55.00 - —
smaller lots kilo. 55.10 - 55.30
Psyllium seed, black, bgs lb. .27 - .30
blonde, bgs. lb. .19 - .20
husks, bgs. lb. .50 - .55
Pulsatilla herb, bls lb. .45 - .55
Pumice, dom., grd. coarse, 0½, 1, 1½, 2, 3 bgs., ton lots. lb. .03⅝ - .04
smaller lots lb. .03⅞ - .04¼
Italian, silk-screen, coarse, bgs., ton lots lb. .05½ - —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs ton. lots lb. .02½ - —
fine, bgs., ton. lots lb. .02½ - —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs lb. .18 - .20
Purple Lake, (see Red).
Pyrethrum flowers, fine-grd., 0.9% pyrethrins bbls. works. lb. .50 - —
powder, 1.3% pyrethrins, bbls., works lb. .71½ - —
liquid (20 to 1) basis 2 grams pyrethrins per 100 cc. odorless basis, bbls., works gal. 10.50 - —
(30 to 1) basis 3 grams pyrethrins per 100 cc. odorless base, bbls., works gal. 15.75 - —
oleoresin dewaxed, 20%, for aerosol bombs, dms., works lb. 11.00 - 12.00
Pyrethrin synthetic (see Allethrin).
Pyridin, denaturing, dms., c.l., works and frt. equald gal. 2.67 - —
l.c.l., same basis gal. 2.70 - —
refd., 2°, non-ret. dms., c.l., same basis lb. .89½ - 1.04½
l.c.l., same basis lb. .90 - 1.05
Pyrodoxine hydrochloride, 100-gram. bots gram. .55 - —
Pyrites long-ton. No prices.
Pyrocatechol (see Catechol).
Pyrogallol, NF lb. 3.25 - 3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs., c.l., mines ton. 13.50 - 14.00
rubber grade, 140 mesh, bgs., c.l., mines ton. 13.50 - —
standard, 200 mesh, bulk, c.l., mines ton. 12.50 - —
230 mesh, bulk, c.l., mines ton. 13.50 - —
325 mesh, bulk, c.l., mines ton. 16.75 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 11.00 - —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.
Pyroxylin, USP, bots lb. 9.59 - —
Scrap, opaque, amber, cs., works, lb. .22 - —
black cs., works lb. .16 - —
mixed, mottled, cs., works lb. .15 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works lb. .17 - —
translucent, pastels, cs., works, lb. .18 - —
transparent, colorless, cs., works, lb. .23 - —
colors, cs., works lb. .17 - —
shavings, opaque, amber, cs., works lb. .18 - —
mixed, colors, cs., works lb. .17 - —

Q

Quassia, chips, bls lb. .08 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .16½ - .16¾
liquid, 35% tannin, bbls., works, tanks, same basis lb. .08¼ - —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12⅞ - —
ordinary, 63% tannin, bgs., c.l., same basis lb. .11 31/64 —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs lb. .20 - .25
Quercitron crystals, No. 1, bbls., l.c.l lb. .40 - —
Extract, No. 1, liquid, bbls., l.c.l., lb. .19 - —
Quicksilver flasks (76 lbs. net) flask. 212.00 - —
Quince seed, bgs lb. .80 - 1.50
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.90 - —
powd., precip., cns., 100-oz. lots oz. 1.85 - —
Sulphate, USP, cns., 100-oz. lots oz. 1.25 - —
Quinine, NF, cns., 100-oz. lots oz. .70 - —
Bisulphate, USP cns., 100-oz. lots oz. .51 - —
Dihydrochloride, USP, cns oz. .70 - .72
Ethylcarbonate, NF, cns., 100-oz. lots oz. .75 - —
Hydrobromide, NF, cns., 50-oz. cns. oz. .63 - —
Hydrochloride, USP, cns., 100-oz. lots oz. .63 - —
Phosphate, NF cns., 100-oz. lots oz. .76 - —
Salicylate, NF, cns., 100-oz. lots oz. .66 - —
Sulphate, USP, cns., 100-oz. lots oz. .56½ - —
Quinine and Urea hydrochloride, NF, cans oz. .68 - —
Quinolin, ret. dms., c.l., frt. equald. lb. .60¾ - —
l.c.l., same basis lb. .61¼ - —
tanks, same basis lb. .60 - —

R

R salt, paste dry basis, dms., frt. alld lb. .87 - —
Raspberries, dried, bbls lb. 1.25 - 1.30
Red, BON, arylid, deep shades, bbls. lb. 3.60 - —
light medium shades, bbls. lb. 2.75 - —
maroons, pure, bbls lb. 1.75 - —
resinated, bbls lb. 1.50 - —
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.60 - —
light shade, bbls., same basis lb. 4.20 - —
medium shade, bbls., same basis lb. 4.50 - —
medium-light shade, bbls., same basis lb. 4.30 - —
orange shade, bbls., same basis lb. 3.80 - —
lithopone, deep shade, bbls., same basis lb. 1.85 - 1.90
light shade, bbls., same basis, lb. 1.75 - —
maroon shade, bbls., same basis lb. 2.00 - 2.10
medium shade, bbls., same basis lb. 1.85 - —
medium-light shade, bbls., same basis lb. 1.80 - —
orange-red shade, bbls., same basis lb. 1.70 - —
Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.
Carmine No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .12½ - —
Iron oxide, synth., bgs lb. .12¼ - .12½
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis lb. .05¼ - .09¼
special, high color, all shades, bgs lb. .60 - —
Lake C. toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol, toner, bbls, works lb. .85 - —
rubin, toner, resinated, bbls., works lb. 1.40 - —
pure, bbls., works lb. 1.50 - —
Virginia, bbls, works lb. 1.40 - —
Maroon, toner, BON, arylid, dlvd. lb. 3.60 - —
Cadmium, deep, bbls., works, lb. 1.20 - —
regular, bbls., works lb. 1.10 - —
MNPI, toner, kgs., works lb. 3.60 - —
Maroons in smaller pkgs, 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic, bbls., works lb. .02½ - .02¾
Oxide (see Red iron oxide).
Persian gulf, bgs, works lb. .06¾ - .07
Para toner, bbls lb. .85 - —
Chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA., kegs lb. 4.90 - —
tungstated, PTMA, works, kegs, lb. 5.10 - 5.79
Spanish, oxide, bbls., c.l., ex dock lb. .05¼ - —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½ - —
Toluodin toner, deep shades, kgs., works lb. 1.45 - —
light shades, kgs., works lb. 1.45 - —
Turkey, bbls., works lb. .14½ - —
Tuscan, bbls., frt. equald lb. .24½ - .25
Venetian, 15%, bgs., works lb. .0350 - .0375
20%, bgs., works lb. .04 - —
25%, bgs., works lb. .0450 - —
30%, bgs, works lb. .0475 - —
35%, bgs., works lb. .05 - —
40%, bgs, works lb. .0525 - —
Vermilion, Amer., bbls lb. .32 - —
Quicksilver, ctns. lb. 3.79 - —
Watchung, bbls lb. 1.95 - —
Red, KB base (see Chloro (4)-2-toluidine).
Red precipitate, NF, powd., fib. dms lb. 4.37 - 4.41
Red saunders NF, powd., bbls lb. .35 - —
Rennin, NF, powder lb. 6.25 - —
Resorcinol, tech. grade, dms., c.l., works lb. .82½ - —
l.c.l., works lb. .83½ - —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Resorcinol monoacetate, NF, dms., lb. 3.25 - 3.45
Rhatany root, bgs lb. .15 - .16
Rhodinol, 5-lb. cans lb. 40.00 - 56.00
Rhubarb root, China, whole, cs. lb. .70 - 1.25
powd., bbls lb. .75 - 1.50
India, whole, bgs lb. .30 - .35
powdered, bbls lb. .35 - .40
Riboflavin, USP, bots., dlvd kilo. 125.00 - —
Readily soluble, bots., dlvd kilo. 125.00 - —
Rice bran, concentrate, dms., Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., dms., 5,000 lbs lb. .37½ - —
smaller lots lb. .38 - .43
Rose flowers, pale, bls lb. .45 - .50
Rosemary flowers, bls lb. 1.55 - 1.65
Leaves, French, bls lb. .10½ - .11
Portuguese, bls lb. .07 - .07½
Spanish, bls lb. .06 - .08½
Rosin gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 4.00 - —
FF, dms., c.l., works 100 lbs. 6.50 - —
G, H, I, dms., c.l., works 100 lbs. 7.15 - —
K, dms., c.l., works 100 lbs. 7.15 - —
M, dms., c.l., works 100 lbs. 7.25 - —
N, dms., c.l., works 100 lbs. 7.25 - —
WG, dms., c.l., works 100 lbs. 7.64 - —
WW, dms., c.l., works 100 lbs. 7.73 - —
X, dms., c.l., works 100 lbs. 7.83 - —
Rotenone, CP, bbls., works lb. 20.00 - —
tech., bbls., works lb. 16.50 - —
Rottenstone, bgs., c.l., mines ton. 40.00 - —
l.c.l., mines ton. 48.00 - —
Rue herb, bls lb. .35 - .40
Rutin, 10-kilo lots, fib. dms gram. .03 - .04
smaller lots, fib. dms gram. .03 - .04
Ryania, 100% powd., bgs., works lb. .20 - —

S

Sabadilla seed, powd., bbls lb. .73 - —
activated, ground with lime, bbls lb. .45 - .50
Saccharin, USP, gran., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 - 1.80
powd., soluble, insoluble, dms., 1000-lb. lots lb. 1.65 - —
smaller lots lb. 1.75 - 1.95
Safflower, Egyptian, bls lb. .65 - .70
Saffron, Mexican, bls lb .90 - .95
Spanish, USP, tins lb. 24.00 - 27.00
Safrol, dms. lb. .95 - 1.40
Sage, Cretan, bls lb. .12 - .12½
Cyprus, bls lb. .09 - .09½
Dalmatian, bls lb. .57 - .58
Greek, bls lb. .13 - .13½
Officinalis, Italian, bls lb. .28 - .30
Spanish, bls., stemless lb. .12 - .12½
Syrian, bls lb. .13 - .13½
Turkish, bls lb. .13 - .13½
Sago flour, refined, bgs lb. .09 - .09¼
unrefined, bgs lb. .0735 - .0775
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs lb. 1.05 - —
fib. dms lb. 1.07 - 1.08
powdered salol, 10c. higher.
Salt, rock, burlap bgs., c.l., works, 100 lbs. 1.09 - —
l.c.l. 100 lbs. 1.30 - —
paper bgs., c.l 100 lbs. .94 - —
l.c.l. 100 lbs. 1.15 - —
Table, vacuum, common, fine, bgs., c.l., works 100 lbs. 1.09 - —
l.c.l., works 100 lbs. 1.20 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton. 17.00 - —
Saltpeter, cryst., bbls., 10-ton lots, 100 lbs. 14.40 - —
smaller lots 100 lbs. 14.65 - 14.90
powd., bbls., 20-ton lots 100 lbs. 10.75 - —
smaller lots 100 lbs. 12.00 - 12.50
gran., bbls., 20-ton lots 100 lbs. 9.75 - —
smaller lots 100 lbs. 11.10 - 11.50
NF, gran., dms lb. .09¾ - .17¾
Saltpeter in bags, 50c. per 100 lbs. less than in barrels; in kegs, $1 more.
Sandalwood chips, East Indies, bgs., lb. .65 - .66
powd., dms lb. .75 - .76
Sanguinarine nitrate, bots oz. 4.75 - 5.50
Santonin, NF, dom., dms., cryst., powd., cns kilo. 300.00 - 325.00 Nom.
imported, cryst., powd., cns kilo. No prices.
Saponin, No. 1, 100-lb. dm lb. 2.75 - —
Sarsaparilla root, dom., bls lb. .45 - .50
Honduras, bls lb. .38 - .40
Mexican, bls lb. .22 - .25
Sassafras bark, ord., bls lb. .35 - .40
select, bls lb. .60 - .65
Savory, French, bls lb. .15½ - .16
Spanish, bls lb. .08½ - .09
Saw palmetto berries, bgs lb. .30 - .35
Scammony resin lump, cns lb. 1.95 - 2.20
powd., cns lb. 2.05 - 2.30
Root, bgs lb. .10 - .14
Schaeffers salt, paste, dms., frt. alld. lb. .77 - —
powder bgs., frt. alld lb. .80 - —
Scopolamine hydrobromide, bots. oz. 17.60 - 18.30
Hydrochloride, USP, bots oz. 84.00 - —
Seidlitz mixture, bbls., 5,000 lbs lb. .30½ - —
smaller lots lb. .31 - .32
Selenium, powd., dms., dlvd lb. 3.25 - —
Senega root, bls lb. 2.45 - 2.50
Senna leaf, Alex., half-leaf, bls lb. .18 - .20
sifting, bgs lb. .14 - .18
Tinnevelly, No. 1, bls lb. .21 - .22
No. 2, bls lb. .19 - .21
No. 3, bls lb. .16 - .19
powdered, bls., bxs lb. .26 - .24
Pods, bls lb. .40 - .50
Serpentaria root, bls lb. 5.00 Nom.
Sesame seed, Indian, white, hulled, bgs lb. No stocks.
natural, bgs lb. .18 - .18½
Nicaragua, hulled, bgs lb. .22 - .30
natural, bgs lb. .15½ - .16
Turkish, bgs lb. .15 - .15½
Shaeffer's salt, bgs, frt. alld lb. .80 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .52 - —
bbls., 1,500-lb. lots lb. .53 - —
kgs., 1,500-lb. lots lb. .55 - —
refined, bgs., 1,500-lb. lots lb. .62 - —
bbls., 1,500-lb. lots lb. .63 - —
kgs., 1,500-lb. lots lb. .65 - —
Bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.
Lemon, No. 1, bgs lb. .39½ - —
No. 2, bgs lb. .37 - .40
Superfine bgs., 10-bg. lots lb. .35 - .37
TN, bgs., 10-bg. lots lb. .33 - .36
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill., works ton. 25.00 - —
l.c.l., works ton. 30.00 - 40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ton. 25.00 - 30.00
140 mesh, bgs., c.l., works ton. 15.00 - —
l.c.l., works ton. 20.00 - —
Tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½

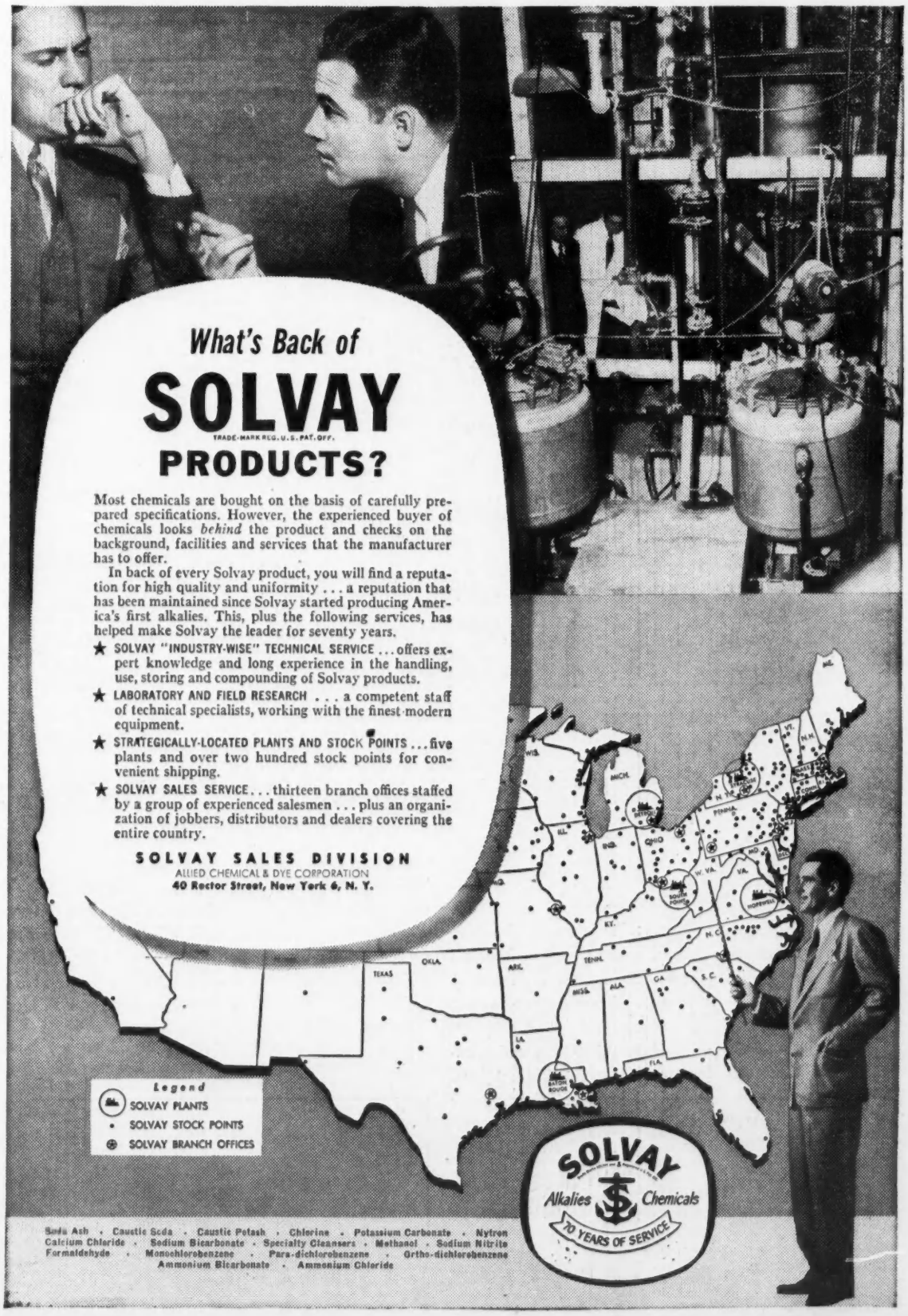
Silver bullion, ingots, cs ..... oz. .88 - —
Cyanide, fib. dms., 2,500-oz lots. oz. .79½- —
1,000-oz. lots ..... oz. .79⅝- —
500-oz. lots ..... oz. .79⅝- —
100-oz. lots ..... oz. .79⅞- —
Nitrate, CP, cryst., bots., 2,500-oz. lots .. oz. .56¾- —
1,000-oz. lots ..... oz. .57⅜- —
500-oz. lots ..... oz. .58⅛- —
250-oz. lots ..... oz. .58⅞- —
USP granular silver nitrate, 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots .. oz. 1.00 - —
Simaruba bark, bls ..... lb. .90 Nom.
Skullcap herb, Eastern, bls ..... lb. .50 - .65
Western, bls ..... lb. .30 - .35
Skunk cabbage root, bls ..... lb. .35 Nom.
Slate flour, bgs., c.l., works ... ton. 11.00 -12.00
l.c.l., ex whse ..... ton. 20.00 -60.00
Sloe berries, bgs ..... lb. .24 - .28
Smalt, black, ctns ..... lb. .15 - —
Blue, ctns ..... lb. .18 - —
Snakeroot, Canada, bls ..... lb. .75 - .80
Soapbark, bls ..... lb. .27 - .31
crushed, bls., bbls ..... lb. .32 - .35
powd., bbls ..... lb. .35 - .37
Soda ash, dense, 58% paper bgs., c.l., works .. 100 lbs. 1.60 - —
l.c.l., stock points .... 100 lbs. 2.85 - 4.62
bbls., c.l., works ..... 100 lbs. 2.15 - —
l.c.l., stock points .... 100 lbs. 3.35 - 4.12
bulk, c.l., works ..... 100 lbs. 1.30 - —
light, 58%, paper bgs., c.l., works .. 100 lbs. 1.50 - —
l.c.l., stock points .... 100 lbs. 2.75 - 4.52
bbls., c.l., works ..... 100 lbs. 2.05 - —
l.c.l., stock points .... 100 lbs. 3.25 - 5.02
bulk, c.l., works ..... 100 lbs. 1.20 - —
Soda, caustic, flake, powd., 76%, c.l., works .. 100 lbs. 3.75 - —
l.c.l., stock points .... 100 lbs. 4.95 - 6.77
liquid, 50%, sellers' tanks, works, dry basis .. 100 lbs. 2.55 - —
rayon-type, tanks, works, dry basis .. 100 lbs. 2.65 - —
70% sellers' tanks, works, dry basis .. 100 lbs. 2.65 - —
rayon-type, tanks, works, dry basis .. 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works .. 100 lbs. 3.35 - —
l.c.l., stock points .... 100 lbs. 4.55 - 5.05
Sal, bgs., c.l., works ..... 100 lbs. 1.40 - —
l.c.l., works ..... 100 lbs. 1.70 - —
Soda-lime, USP, dms ..... lb. .23 - .25
Sodium acetate, anhyd., bgs., c.l., works .. lb. .12 - —
l.c.l., dms ..... lb. .12¾- —
NF, gran., dms., works ..... lb. .16 - —
Alginate, refined, water-soluble, bbls., works .. lb. .83 - —
semi-refined, bbls., works .. lb. .54 - —
NF, white, powd., dms., works, ton lots .. lb. 1.40 - —
smaller, lots ..... lb. 1.55 - 1.65
Aluminate, bgs., 29 000 lbs. or more .. 100 lbs. 8.50 - —
smaller, lots ..... 100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd, E .. lb. .40½- —
l.c.l., dlvd ..... lb. .41½- —
Arsenate, dms., c.l., works .... lb. .12½- —
l.c.l., dms., works ..... lb. .13¾- .14¾
Arsenite, dms., c.l., works .... lb. .13½- —
l.c.l., dms., works ..... lb. .14¼- .15¼
solution, dms., works ..... gal. .70 - 1.10
Benzoate, tech., bbls., dms., 100 lbs. or more .. lb. .37½- .39
USP, bbls., dms., 100 lbs. or more .. lb. .44½- .46
Bicarbonate, USP, gran., bgs., c.l., works .. 100 lbs. 2.50 - —
l.c.l., works .... 100 lbs. 3.15 - —
powd., bgs., c.l., works 100 lbs. 2.10 - —
l.c.l., works ..... 100 lbs. 2.75 - —
Bichromate, bgs., c.l., works .. lb. .11 - —
l.c.l., same basis ..... lb. .11¼- .12
Bifluoride, bbls., c.l., works, frt. equald .. lb. .1375- —
l.c.l., same basis ..... lb. .1415- —
Bisulphate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works ..... 100 lbs. 2.65 - 3.85
l.c.l., works ..... 100 lbs. 3.05 - 3.65
Bisulphite, powd., bgs., c.l., works, 100 lbs. 3.90 - —
l.c.l., works ..... 100 lbs. 4.15 - —
solut. 35°, bbls., c.l., works, 100 lbs. 1.40 - —
l.c.l., works ..... 100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls..., kgs., works, lb. .34 - .35
Cacodylate, NF, jars, dms .... lb. 7.00 - 9.00
Carbonate, anhydrous (see Soda ash).
crystalline, decahydrated (see Soda sal).
monohydrated, bgs., c.l., works 100 lbs. 2.65 - —
l.c.l., works ..... 100-lbs. 3.05 - —
Chlorate, cryst., dms., c.l., works, lb. .06¼- —
l.c.l., works ..... lb. .08¾- .09¼
Chloride, tech (see Salt).
USP, dms ..... lb. .21 - —
Chlorite, tech., dms., works .. lb. .58 - .73
Chloroacetate, tech., dms., c.l., works .. lb. .24 - —
l.c.l., dms., works ..... lb. .25 - .26
Chromate, dms., c.l., works .. lb. .12¾- —
l.c.l., same basis ..... lb. .13 - .13¾
Citrate, anhyd., dms ..... lb. .60 - .65
USP VIII, gran., dms ..... lb. .22½- .29½
USP XIV, gran., dms ..... lb. .28 - .32
Sodium citrate USP powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots., works .. lb. .85 - 1.10
smaller lots, works ..... lb. 1.00 - 1.25
Cyanide, 96-98%, dms ..... lb. .163 - .183
Diacetate, 33-35% acidity, 250-lb. dms., works .. lb. .14 - —
l.c.l., dms ..... lb. .14¾- —
anhydrous, dms., c.l., works .. lb. .17 - —
l.c.l. ..... lb. .17¾- —
Fluoride, white, 90%, bbls., c.l., works .. lb. .11 - —
l.c.l., works ..... lb. .1140- —
95%, bbls., c.l., works ..... lb. .1125- —
l.c.l., works ..... lb. .1165- —
Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works .. lb. 12.00 - —
2 to 25 tins to case, works .. lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works .. lb. 16.50 -21.00
tribasic, ton lots ..... lb. 11.00 - —
Formate, bgs., c.l., dlvd .... 100 lbs. 7.10 - —
l.c.l. ..... 100 lbs. 8.15 - 8.45
Gentisate, 100-lb. fib. dms ..... lb. 8.50 - —
Gluconate, dms ..... lb. .83 - .85
Glutamate, monobasic, dms., c.l., dlvd .. lb. 1.66 - —
smaller lots, dlvd ..... lb. 1.67 - 1.69
Glycerophosphate, NF, cryst., bbls. lb. 1.80 - 1.95
powder, bbls ..... lb. 1.85 - 2.00
solution, 75%, cbys ..... lb. 1.06 - 1.21
Hydride, dms., works ..... lb. 2.40 - 3.00
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld .. lb. .24½- —
l.c.l., frt. alld ..... lb. .25 - —
Hydroxide, tech. (see Soda caustic).
NF, pellets, 100-lb. dms., 1 to 100 dms .. lb. .21½- .26
Hypophosphite, NF, ton lots or less, dms .. lb. .95 - .98

Sodium hyposulphite, tech., bgs., works .. 100 lbs. 4.00 - —
l.c.l., same basis ..... 100 lbs. 4.40 - 6.90
photo grade, bgs., c.l., works, 100 lbs. 4.00 - 4.25
l.c.l., same basis .... 100 lbs. 4.65 - 7.15
pea crystals, bgs ..... 100 lbs. 4.50 - —
gran., bgs., c.l., works. 100 lbs. 5.00 - —
Sodium, hyposulphite crystals in bbls. 50c. higher.
NF (see Sodium thiosulphate).
Iodide, USP, bots., dms ..... lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works .. lb. .21½- —
60% dms., cbys., works .. lb. .26½- —
tech., 50%, dms., cbys., works, lb. .16½- —
Laurylsulphate, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd ..... lb. .28 - —
tanks, dlvd ..... lb. .25 - —
Metaborate, octahydrate, gran., bgs., c.l., works .. ton. 78.50 - —
l.c.l., ex., whse ..... ton. 124.50 -129.50
tetrahydrate, c.l., bbls., works, ton. 199.50 - —
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
Metal, tanks, works ..... lb. .16 - —
bricks, dms., works ..... lb. .17 - .19
Metanilate, bbls. frt. alld ..... lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works .. 100 lbs. 4.60 - —
l.c.l., works ..... 100 lbs. 6.10 - —
dms., c.l. ..... 100 lbs. 4.95 - —
l.c.l. ..... 100 lbs. 6.45 - —
pentahydrate, bgs., c.l., works, frt. equald .. 100 lbs. 4.00 - —
l.c.l., bgs., works .. 100 lbs. 4.40 - 6.90
bbls., c.l., works .... 100 lbs. 4.80 - —
l.c.l., works ..... 100 lbs. 5.20 - —

Silver Bullion—Sodium Sesquicarbonate, Carlots

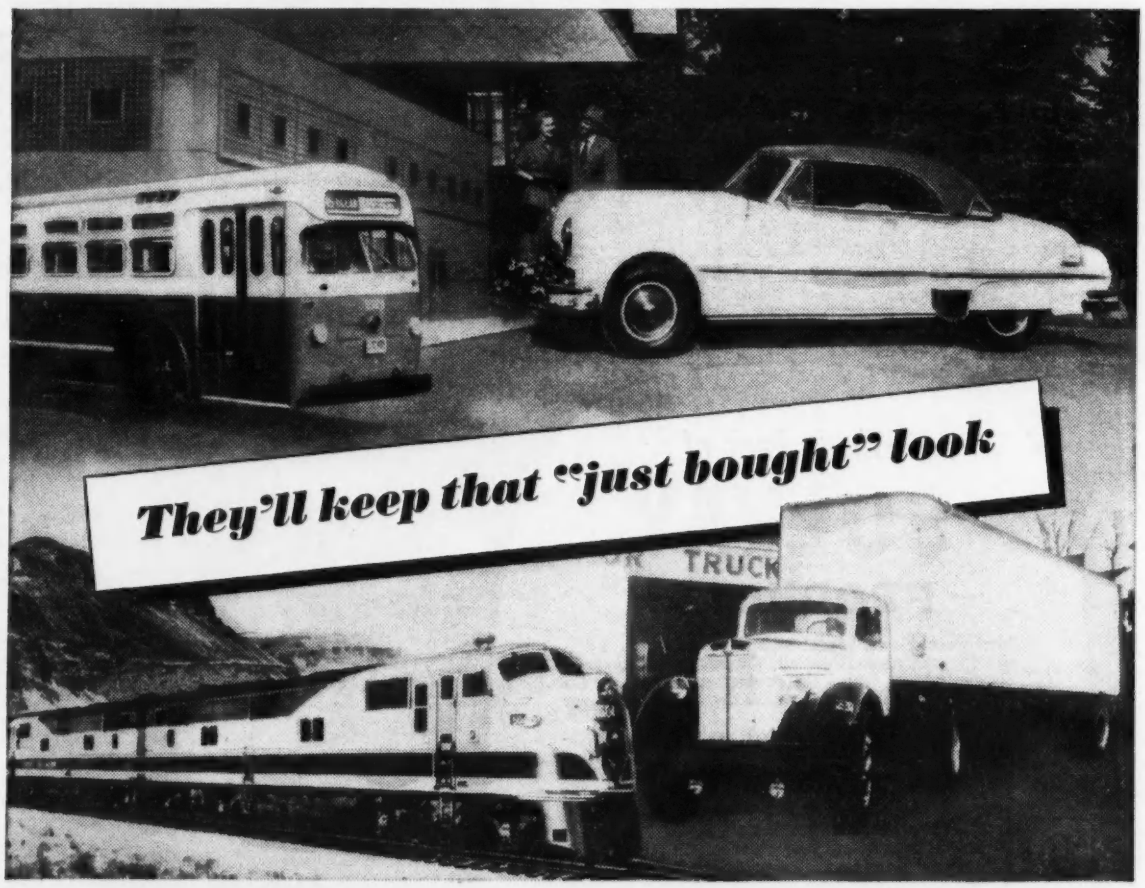
Sodium molybdate, crystals, bbls., works .. lb. .75 - .85
powd., anhy., dms., works .. lb. 1.05 - 1.06
Monohydrate (see Sodium carbonate., monohydrated).
Naphthionate, bbls ..... lb. .70 - —
Nitrate, crude, bgs., c.l., works, ton. 51.00 - —
bulk, c.l., works ..... ton. 47.50 - —
imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse .. ton. 57.00 - —
bulk, c.l., same basis .. ton. 53.50 - —
Nitrite, bbls., c.l., works, frt. equald .. lb. .07¼- —
l.c.l., same basis ..... lb. .08¾- —
USP, gran., dms ..... lb. .17 - —
Orthosilicate, anhyd., dms., c.l., works .. 100 lbs. 6.00 - —
l.c.l., works ..... 100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs. 4.75 - —
l.c.l., works ..... 100 lbs. 5.50 - —
Oxalate, neut., bgs., works .... lb. .10½- —
Para-aminobenzoate, dms., 1,000-lb. lots or more .. lb. 3.00 - —
smaller lots ..... lb. 3.05 - 3.40
Para-aminosalicylate dms., 1,000-lb. lots., frt. adjusted. lb. 4.25 - —
smaller lots, same basis .. lb. 4.30 - 4.75
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald. lb. .25½- —
l.c.l., same basis ..... lb. .26½- .28½
pellets, bgs., c.l., same basis .. lb. .25 - —
l.c.l., same basis ..... lb. .26 - 28
powd., bgs., c.l., same basis .. lb. .24 - —
l.c.l., same basis ..... lb. .25 - 27
Pentachlorophenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.

Sodium perborate, USP, tech., bbls., c.l., works .. lb. 1.93 - —
l.c.l., works ..... lb. .198 - —
Peroxide, dms., c.l., dlvd, E. of Miss .. lb. .18.0- —
l.c.l., same basis ..... lb. .19.0- .2010
Phenolsulphonate, USP IX, gran., dms .. lb. .44 - .45
powd., dms ..... lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., works .. 100 lbs. 7.25 - —
l.c.l., works ..... 100 lbs. 7.75 - —
USP, dried powd., bgs., dms., works .. lb. .19 - .20¼
duohydrate, bgs., c.l., works, 100 lbs. 6.65 - —
l.c.l., works ..... 100 lbs. 7.05 - —
monobasic, anhyd., bgs., c.l., works .. 100 lbs. 8.05 - 8.30
l.c.l., works ..... 100 lbs. 8.45 - 8.70
tribasic, cryst., bgs., c.l., works, frt. equald .. 100 lbs. 4.05 - 5.30
l.c.l., same basis .. 100 lbs. 4.45 - 8.20
Sodium phosphates in bbls. 40c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots, lb. .13½- —
smaller lots ..... lb. .14 - —
Pyrophosphate acid, bgs., c.l., works, frt. equald .. 100 lbs. 10.00 -10.75
ferric, dms., 1,500-lb. lots, works .. lb. .40 - —
smaller lots, works .. lb. .42 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald .. 100 lbs. 7.40 - 7.50
l.c.l., frt. equald .. 100 lbs. 7.80 - 7.90
Salicylate, USP, dms ..... lb. .63 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —


What's Back of
SOLVAY
TRADE-MARK REG. U.S. PAT. OFF.
PRODUCTS?
Most chemicals are bought on the basis of carefully prepared specifications. However, the experienced buyer of chemicals looks behind the product and checks on the background, facilities and services that the manufacturer has to offer.
In back of every Solvay product, you will find a reputation for high quality and uniformity . . . a reputation that has been maintained since Solvay started producing America's first alkalies. This, plus the following services, has helped make Solvay the leader for seventy years.
★ SOLVAY "INDUSTRY-WISE" TECHNICAL SERVICE . . . offers expert knowledge and long experience in the handling, use, storing and compounding of Solvay products.
★ LABORATORY AND FIELD RESEARCH . . . a competent staff of technical specialists, working with the finest modern equipment.
★ STRATEGICALLY-LOCATED PLANTS AND STOCK POINTS . . . five plants and over two hundred stock points for convenient shipping.
★ SOLVAY SALES SERVICE . . . thirteen branch offices staffed by a group of experienced salesmen . . . plus an organization of jobbers, distributors and dealers covering the entire country.
SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
Legend
SOLVAY PLANTS
SOLVAY STOCK POINTS
SOLVAY BRANCH OFFICES
SOLVAY
Alkalies Chemicals
70 YEARS OF SERVICE
Soda Ash · Caustic Soda · Caustic Potash · Chlorine · Potassium Carbonate · Nytron
Calcium Chloride · Sodium Bicarbonate · Specialty Cleansers · Methanol · Sodium Nitrite
Formaldehyde · Monochlorobenzene · Para-dichlorobenzene · Ortho-dichlorobenzene
Ammonium Bicarbonate · Ammonium Chloride

Sodium Sesquicarbonate, L.C.L.—Sulphur, Rubbermakers, Ref.

Sodium sesquicarbonate, bgs., l.c.l., dlvd. zone 1..100 lbs. 3.85 - 4.25
zone 2..100 lbs. 4.11 - 4.51
zone 3..100 lbs. 4.40 - 4.70
zone 4..100 lbs. 5.11 - 5.50
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
bbls., c.l., works..100 lbs. 2.45 - —
Sesquisilacate, anhy., dms., c.l., works..100 lbs. 5.50 - —
l.c.l., works..100 lbs. 7.00 - —
Silicate, liquid, 40°, turbid., dms., c.l., works..100 lbs. 1.30 - —
l.c.l., works..100 lbs. 1.60 - 1.85
tanks, works..ton.19.00 - —
52°, turbid., dms., c.l., works. 100 lbs. 2.20 - —
l.c.l., works..100 lbs. 2.50 - 2.75
tanks, works..ton.37.00 - —
solid, bgs., works..ton.55.00 - —
Silicofluoride, bgs., c.l., works..lb. .070 - —
l.c.l., works..lb. .075 - .079
Stannate, dms., works, frt. alld. E..lb. .660 - .716
Stearate tech., dms., works..lb. .43 - .44
USP, dms., works..lb. .70 - .75
Sodium sulphanilate, bbls., works lb. .22 - —
Sulphate, NF VII, dried, gran., dms..lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
l.c.l., works, same basis. 100 lbs. 2.50 - 3.00
cryst. (see Glauber's salt).
rayon grd., bgs., c.l., works. ton.27.00 - —
l.c.l., works..ton.33.00 - —
USP, cryst., fib. dms..lb. .17½- .18
gran., fib. dms..lb. .17½- .18
dlvd., Met. area..ton.118.50 - —
Sulphide, flake, bbls., c.l., works, E., frt. equald..ton.100.00 - —
l.c.l., same basis..ton.108.00 - —
fused, bbls., c.l., works, E. frt. equald..ton.88.50 - —
l.c.l., same basis..ton.98.50 - —
Sulphite anhyd., bgs., c.l., works. 100 lbs. 2.73 - —
l.c.l., same basis..100 lbs. 3.33 - 5.58
regular, cryst., bgs., c.l., works. 100 lbs. 4.80 - —
l.c.l., same basis..100 lbs. 5.20 - 6.45
powder, bbls., c.l., works 100 lbs. 6.75 - —
l.c.l., works..100 lbs. 7.25 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls..lb. No prices.
Sulphydrate, flake, 70-72%, dms., works, c.l..ton.115.00 - —
l.c.l., works..ton.125.00 - —
liquid 34-40%, basis 100% tanks works..ton100.00 -117.60
Tetrasulphide, liquid, 40%, dms., c.l., works..lb. .03¼- —
l.c.l., works..lb. .03¾- —
Sodium thiosyanate, CP, dms..lb. .55 - .65
tech., dms., works..lb. .30 - —
Thiosulphate, NF, cryst., bbls..lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works..lb. .10½- —
5 tons, works..lb. .10¾- —
1 ton or less, works..lb. .11 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld., E..lb. .37½- —
l.c.l., frt. adjusted, E..lb. .39½- —
50-lb. dms., c.l., frt. alld., E..lb. .38 - —
l.c.l., frt. adjusted, E..lb. .40 - —
10-lb. cns., c.l., frt. alld., E..lb. .44 - —
l.c.l., frt. adjusted, E..lb. .46 - —
Prices West of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.75 - 8.00
l.c.l., same basis..100 lbs. 8.15 - 8.40
Tungstate, tech., kgs., dlvd. E..lb. 3.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, c.l., dms., dlvd..lb. .25½- —
l.c.l., same basis..lb. .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works basis..lb. .28 - —
less than 1,000 lbs., same basis..lb. .30 - —
Solvent naphtha, coaltar, tanks, works..gal. .31 - .34
high-flash, tanks, works..gal. .31 - .34
petroleum, 100°F., tanks, Baytown, Tex..gal. .31 - —
Bayonne..gal. .35 - —
150°F., flash, tanks, Baytown, Tex..gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works..lb. .32 - —
10,000 to 20,000 lbs., works..lb. .34 - —
smaller lots, works..lb. .37 - .39
Tristearate, fib. dms., 20,000 lbs. works..lb. .33 - —
10,000 to 20,000 lbs., works..lb. .35 - —
smaller lots, works..lb. .38 - .40
Sorbitol, cryst., pellets, dms., c.l., works..lb. .30 - —
ton-lots to 5 tons, works..lb. .32 - .33
powd., dms., ton lots to 5 tons, works..lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works..lb. .24¼- —
ton lots, works..lb. .25 - —
less ton lots, works..lb. .25¼- —
tanks, works..lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works..lb. .16 - —
ton lots, works..lb. .16¾- —
less ton lots, works..lb. .17 - —
tanks, works..lb. .15 - —
Soybean meal, 41% bulk Decatur. ton.74.00 Nom.
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .25½- —
20,000 to 40,000 lbs., same basis lb. .25¾- —
100 to 20,000 lbs., same basis lb. .26¼- —
mechanically refined, bgs., 40,000 lbs., same basis..lb. .0600- —
20,000 lbs., same basis..lb. .0615- —
smaller lots same basis..lb. .0630- —
Sparteine sulphate, cns..oz. .85 - 1.25
Spearmint leaves, bls..lb. .60 - .65
Spikenard root, bls..lb. .32 - .45
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works. lb. .05½- —
l.c.l., works..lb. .05¾- —
Squaw vine leaves, bls..lb. .38 - .42
Squill red fortified powd., bbls. boxes..lb. 1.60 - —
white, bls..lb. .10 - .14
powd., bbls., bxs..lb. .16 - .20
St. Ignatius beans, bgs..lb. No stocks.
St. John's bread edible, bls..lb. .10 - .13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y..100 lbs. 7.15 - —
l.c.l..100 lbs. 7.30 - —
powd., paper bgs., c.l..100 lbs. 7.27 - —
l.c.l..100 lbs. 7.42 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.
Potato, Idaho, bgs., c.l., works..lb. .07 Nom.
Maine bgs., c.l., works..lb. .12½- Nom.
l.c.l., spot..lb. .10 - .10¼
Rice, l.c.l., bgs..lb. .11 - .12
Wheat, bgs..lb. .0675- .0710
Stavesacre seed, bgs..lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls..lb. .28 - .30
Stoneroot, bls..lb. .07¼- .08
Storax, USP, cs..lb. 1.50 - 1.60
Stramonium leaves, bgs..lb. .16 - .18
Streptomycin, either hydrochloride or sulphate, bulk, 50-kilo lots or more..gram. .27 - —
unlabeled, 1-gram vials, 1 to 500,000 vials..vial. .30 - —
5-gram vials, 1 to 500,000 vials..vial. 1.32 - —
Strontium bromide, NF, cns., dms. lb. .77 - —
Carbonate, 92%, dms..lb. .20½- .24½
Chloride, tech., bbls..lb. .22 - .24
Chromate, bbls., works..lb. .46 - —
Iodide jars, 25-lb. lots..lb. 3.37 - —
Nitrate, bbls., c.l., works..lb. .1025- —
l.c.l., works..lb. .1125- —
Oxalate, bbls., works..lb. No prices.
Salicylate, NF, dms..lb. 1.65 - —
Sulphate, air floated, 90%, 325 mesh bgs., works..ton.56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works..lb. 2.80 - 2.85
Strophanthin, NF, bots..oz.25.00 -25.50
Strophanthus seed, Komba, bgs..lb. 3.00 - 3.25
Strychnine, NF, powd., cans., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs..oz. 1.14 - —
Sulphate, USP, powd., cans, 100 ozs..oz. 1.00 - —
Styrene monomer, dms., c.l., works lb. .22¼- —
l.c.l., works..lb. .23¼- —
tanks, works..lb. .21 - —
Styrolyl acetate, bots..lb. 2.56 - 3.10
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works..lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamine, dms..lb. 4.25 - 4.60
Sodium, dms..lb. 4.25 - 4.60
Sulphacetamide, fiber, 100-lb. dms., kilo. 9.25 - —
Sulphadiazin, USP, crystals, free flowing, dms..lb.11.25 -11.75
microcrystals, 99%, not over 10 microns, dms..lb.10.60 -11.10
powder..lb.10.25 -10.75
Sulphadiazin-sodium, USP, dms..lb.11.25 -11.75
Sulphaguanidin, USP, dms..lb. 4.50 - 5.00
Sulphamerazin, USP, micro crystals, 99.9%, not over 10 microns, dms..lb.10.65 -11.15
powder, dms..lb.10.25 -10.75
Sulphamerazin-sodium, USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals, dms..lb. 8.90 - 9.40
powder, dms..lb. 8.50 - 9.00
Sulphanilamide, USP, 30-80 mesh., dms..lb. 1.40 - 1.60
microcrystals, dms..lb. 1.70 - 1.90
powder, dms..lb. 1.30 - 1.50
Sulphanilamidoquinoxaline veterinary, dms..lb. 8.00 - 8.25
Sulphapyridin, NF, powd., bots., tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms..lb. 7.50 - 8.00
Sulphathiazole, USP, crystals, free flowing, dms..lb. 4.00 - 4.50
micro, crystals, 99.9%, not over 10 microns, dms..lb. 3.85 - 4.15
powder, dms..lb. 3.50 - 3.80
Sulphathiazole-sodium, USP, dms., lb. 3.50 - 3.80
Sulphur, commercial, flour, bgs., mines..100 lbs. 2.05 - —
bbls., mines..100 lbs. 2.20 - —
lump, bgs., mines..100 lbs. 1.70 - —
bbls., mines..100 lbs. 2.00 - —
crude, bulk, c.l., mines, contract. long ton.21.00 -22.00
f.o.b., vessels, Gulf ports, export..long ton.25.00 -27.50
domestic and Canada long ton.22.50 -23.50
refined, flowers, USP, bgs., mines. 100 lbs. 3.60 - —
bbls..100 lbs. 4.75 - —
flour, light, bgs., mines..100 lbs. 3.35 - —
bbls., mines..100 lbs. 4.25 - —
lump, bgs., mines..100 lbs. 2.90 - —
rolls, bgs., mines..100 lbs. 3.35 - —
bbls., mines..100 lbs. 3.80 - —
salt block, bgs., mines..100 lbs. 3.10 - —
virgin block, bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular, bgs., mines..100 lbs. 2.25 - —
bbls., mines..100 lbs. 2.40 - —
98-100% passing through 325 mesh, bgs., mines..100 lbs. 2.25 - —
bbls., mines..100 lbs. 3.40 - —
refined, bgs., mines..100 lbs. 2.85 - —
bbls., mines..100 lbs. 2.95 - —



with TITANOX-RA-NC

That sleek, lustrous finish on new cars, buses, trucks and trains will stay new looking longer, when the finish is pigmented with TITANOX-RA-NC. This rutile titanium dioxide pigment contributes much to gleaming, hard-as-nails enamel and lacquer finishes... finishes that keep that "just bought" look in spite of summer sun, winter cold and rain.

TITANOX-RA-NC adds so much to this type of finish because it inhibits chalking and fading, provides *uniform* tinting strength at any desired level of brightness or hiding. Yet this strongest of white pigments presents no production problems, for it grinds and mixes quickly and easily.

If you are selling to the transportation field, you are invited to consult our Technical Service Department for help in selecting proper pigments. Titanium Pigment Corporation, 111 Broadway, New York 6, N. Y.; Boston 6; Chicago 3; Cleveland 15; Los Angeles 22; Philadelphia 3; Pittsburgh 12; Portland 9, Ore.; San Francisco 7. In Canada: Canadian Titanium Pigments Limited, Montreal 2; Toronto 1.

9775

TITANOX
the brightest name in pigments

TITANIUM PIGMENT CORPORATION
Subsidiary of NATIONAL LEAD COMPANY

Sulphur, rubbermakers, treated, 2.5% mineral oil, bgs., mines..100 lbs. 2.45 - —
bbls., mines..100 lbs. 3.80 - —
10% pine tar, bgs., mines, 100 lbs. 3.65 - —
washed, NF, bot..lb. .11 - —
Sulphur dichloride, dms., c.l., works, frt. equald..lb. .03½- —
l.c.l., same basis..lb. .04¼- —
tankcars, same basis..lb. .03¼- —
liquid, com'l, cyls., works..lb. .09 - —
multi unit cars, works..lb. .0535- —
tanks, works..lb. .045 - —
refrigeration, cyls., l.c.l., dlvd. lb. .20 - .36
Monochloride, 55-gal. dms., c.l., frt. equald..lb. .03½- —
l.c.l., same basis..lb. .04¼- —
tanks, same basis..lb. .03¼- —
Sumac leaf, 28%, bgs., ex-dock, short-ton.149.00 Nom.
ground, same basis..ton.145.00 Nom.
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, Balto. unit-ton. .810 - .877
Carteret, N. J. unit-ton. .82 - —
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla. unit-ton. .87 - —
Sweet basil, California, bgs..lb. 1.10 - 1.15
imported, bgs..lb. .60 - .62

T

2,4,5-T, dms., c.l., works..lb. 1.60 - —
l.c.l., works..lb. 1.65 - —
Isopropyl ester dms. c.l., works. lb. 1.70 - —
l.c.l., works..lb. 1.75 - —
Talc, dom. ordinary, grd., Calif., bgs., c.l., works..ton.25.00 -35.00
Vermont off color, bgs., c.l., works..ton.14.00 - —
l.c.l., works..ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works..ton.25.00 -30.00
l.c.l..ton.28.00 -35.00
99.5%, 325 mesh, bgs., c.l., works..ton.27.00 - —
l.c.l., works..ton.30.00 -32.00
imp. Canadian, grd., bgs., c.l., mines..ton.15.25 -35.00
Tallow, edible, tanks, dlvd..lb. .08¼ Nom.
inedible, extra..lb. .05¼- —
fancy..lb. .05½- —
special..lb. .05 - —
No. 1..lb. .04⅝- —
sulphonated, 25%, dms., l.c.l..lb. .07 - .07½
50%, dms., c.l..lb. .10 - .10½
Tamarind, W.I., bbls..lb. .12 - .14
Tankage, animal, feeding, 9-11% mon., bulk..unit-ton. 6.75 - —
Chicago..unit-ton. 7.50 - —
Tansy leaves bls..lb. .25 - .30
Tapioca flour, high grade, ex whse., bgs..lb. .08½- .09
medium grades, ex whse., bgs..lb. .08 - .08¼
Java, ex whse., bgs..lb. .07½-Nom.
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .50 - —
l.c.l., same basis..gal. .52 - —
tanks, same basis..gal. .40 - —
25-28%, dms., c.l., same basis, gal. .56½- —
l.c.l., same basis..gal. .58½- —
tanks, same basis..gal. .46½- —
50-53% dms., c.l., same basis, gal. .72½- —
l.c.l., same basis..gal. .74½- —
tanks, same basis..gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs..lb. .45 - .50
Leaves, bgs..lb. .65 - .70
Tartar emetic, tech., gran. or powd., bbls., kgs..lb. .56 - .59
dms..lb. .57 - .60
USP, powd., bbls., dms., kgs..lb. .61 - .62
Terpin hydrate com'l bbls., c.l..lb. .24½- —
l.c.l..lb. .25 - .25½
NF, cryst., fib. dms..lb. .70 - .75
powd., fib. dms..lb. .75 - .80
Terpineol, alpha (see A), commercial, dms., c.l., South..lb. .13½- —
l.c.l., South..lb. .14 - —
extra, dms..lb. .48 - .50
prime, dms..lb. .39 - .43
Terpinglycol ether, dms., c.l., works. lb. .23½- —
l.c.l. works..lb. .25½- —
tanks, works..lb. .22 - —
Terpinyl acetate, extra, cns., dms..lb. .66 - .70
prime, dms..lb. .55 - .60
Propionate, dms..lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. 1.90 - —
Propionate, USP, 100 gms., bots. gm. 1.90 - —
Tetrachloroethane, dms., works..lb. .12½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works..lb. .20½- .21⅛
smaller, dms., works..lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works..lb. .71 - —
l.c.l..lb. .72 - —
Pyrophosphate, 40%, cns., dms., works..lb. .80 - .88
Tetraethylenepentamine, dms., c.l., dlvd., E..lb. .57½- —
l.c.l., dlvd. E..lb. .58½- —
tanks, dlvd. E..lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasadium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd..lb.12.50 -15.00
Sulphate, 99%, bots., dlvd..lb.10.50 -13.00
Theobromine, fib. dms..lb. 5.75 - 6.00
Salicylate, fib. dms..lb. 5.17 - —
with sodium acetate, USP, dms. lb. 4.80 - —
Sodio-salicylate, fib. dms..lb. 4.05 - 4.10
Theophylline, anhydrous, or USP, 100-lb. dms..lb. 5.00 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms..kilo.160.00 - —
Mononitrate, USP, fib. dms..kilo.160.00 - —
Thiocarbanilide, dms..lb. .44 - .51
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works..lb. 1.99¾- —
l.c.l., same basis..lb. 2.00 - —
Thiouracil, dms., works..lb. 5.50 - 5.60
Thiourea, tech., dms., c.l., works..lb. .43½- —
l.c.l., works..lb. .45½- —
Thorium nitrate, cs, works..lb. 3.60 - —
Threonine dextro laevo, bots., 1-kilo lots..kilo.700.00 - —
Thyme, French, bgs..lb. .21 - .22⅛
Spanish, bls..lb. .07¾- .08
Thymil, fib. dms..lb. 3.75 - 5.52
Iodide, NF, dms..lb. 9.30 - 9.42
Timbo root (see Cube root).
Tin chloride, stannous, anhyd., dms. works..lb. .98½- .99⅛
Crystals, hydrous, bgs., bbls., works..lb. .80¾- —
Metal..lb. 1.21½- —
Oxide, dms..lb. 1.23 - 1.24
Sulphate, stannous, bbls..lb. 1.09 - 1.11
Tetrachloride, anhyd., dms., works. lb. .89 - .90
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd..lb. .21 - .21⅛
l.c.l., dlvd..lb. .22 - .22½
regular, bgs., c.l., dlvd..lb. .21 - .21⅛
l.c.l., dlvd..lb. .22 - .22½
ceramic, bgs., c.l., dlvd..lb. .21 - .21⅛
l.c.l., dlvd..lb. .22 - .22½
Titanium dioxide, metallurgical, natural, granular, bgs., c.l., works..lb. .04¼- —
5-ton lots, works..lb. .04½- .05¼
milled, bgs., c.l., works..lb. .04¼- —
5-ton lots, works..lb. .04¾- .05½
rutile, non-chalking, bgs., c.l., dlvd. E..lb. .23 - .23½
l.c.l., dlvd. E..lb. .24 - .24½
Hydride, cns., works..lb. 7.95 - 9.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd..lb. .08 - .08½
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, tech., dms., c.l., works..lb. .45½- —
l.c.l., works..lb. .48½- .56½
tankcars, works..lb. .44½- —
Tolidin base, distilled, kgs..lb. 1.30 - —
Tolu balsam, cns., dms..lb. 5.00 - 5.65
Toluene (see Toluol).
Toluol coltar industrial and nitration tanks, works:—
Bethlehem, Pa..gal. .32 - —
Birmingham dist..gal. .30 - —
Chicago dist..gal. .33 - —
Cleveland dist..gal. .32¾- —
Geneva, Utah..gal. .26 - —
Hamilton, Ohio..gal. .32 - —
Johnstown, Pa..gal. .30 - —
Lackawanna, N. Y..gal. .33 - —
Lone Star, Tex..gal. .35 - —
Lorain, Ohio..gal. .31 - —
Minequa, Colo..gal. [illegible] - —
Philadelphia Pa..gal. [illegible] - —
Pittsburgh dist..gal. .30 - —
Sparrow's Point, Md..gal. .32 - —
Syracuse, N. Y..gal. .30½- —
Terre Haute Ind..gal. .33½- —
Wyandotte, Mich..gal. .34¼- —
Youngstown, Ohio..gal. .30½- —

Toluol petroleum, industrial, 2° tanks works:—
Albany, N. Y..gal. .33 - —
Bayonne, N. J..gal. .33 - —
Baytown, Tex..gal. .31 - —
Chicago, Ill..gal. .33 - —
Detroit, Mich..gal. .33 - —
Philadelphia, Pa..gal. .33 - —
Providence, R. I..gal. .33 - —
Wood River, Ill..gal. .33 - —
Tonga, 50%, bark and vine, bls..lb. .75 - .80
Tonka beans, Angostura, cks..lb. 1.75 - 1.80
Brazilian, Surinam, cs..lb. 1.00 - 1.25
Totaquine, 100-oz lots, cns..oz. .42 - —
Toxaphene, dms, c.l., works..lb. .23 - —
truckloads, works..lb. .23 - —
ton to truckloads, works..lb. .26 - —
less than ton lots, works..lb. .29 - —
Triacetin, dms., c.l., dlvd. E..lb. .55 - —
l.c.l., dlvd. E..lb. .56 - —
tanks, dlvd. E..lb. .53½- —
Tributyl citrate, tech., dms., c.l..lb. .40½- —
l.c.l..lb. .41½- —
tanks..lb. .39 - —
Phosphate, dms., c.l., frt. alld..lb. .63½- —
l.c.l., same basis..lb. .64½- —
smaller containers..lb. .68½- —
Tributylamine, dms., c.l., works, frt. alld. E. of Miss..lb. .71¾- —
l.c.l., same basis..lb. .72¾- —
tanks, same basis..lb. .70 - —
Trichlorobenzene dms., c.l., works, frt. alld..lb. .12½- —
l.c.l., frt. alld..lb. .13½- —
tanks, frt. alld..lb. .11 - —
Prices in the West 1¾c. higher.
Trichloroethane, dms., c.l., works..lb. .13 - —
l.c.l., works..lb. .13½- —
tanks, works..lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald..lb. .11 - —
dlvd. E..lb. .12½- —
l.c.l., works, frt. equald..lb. .11½- —
dlvd. E..lb. .13½- —
tanks, works, frt. equald..lb. .10 - —
dlvd. E..lb. .11 - —
Tricholine citrate, 65% solut., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd..lb. .37½- —
l.c.l., dlvd..lb. .38½- —
tanks, dlvd..lb. .35½- —
petroleum, dms., c.l., dlvd..lb. .37½- —
l.c.l., dlvd..lb. .38½- —
tanks, dlvd..lb. .35½- —
Triethanolamine dms., c.l., frt. alld. E..lb. .26¼- —
l.c.l., same basis..lb. .27¼- —
tanks, same basis..lb. .24½- —
Triethylamine dms., c.l., works, frt. alld. E..lb. .47 - —
l.c.l., same basis..lb. .48 - —
tanks, same basis..lb. .45½- —
Triethyl citrate, tech., dms., c.l..lb. .37½- —
l.c.l..lb. .38½- —
tanks..lb. .36 - —
Phosphate dms., works, c.l..lb. .38 - —
l.c.l., same basis..lb. .39 - —
tanks, same basis..lb. .37 - —
Triethyleneglycol dms., c.l., frt. alld., E..lb. .23¼- —
l.c.l., same basis..lb. .24¼- —
tanks, same basis..lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E..lb. .48½- —
l.c.l., dlvd. E..lb. .49½- —
tanks, dlvd. E..lb. .47 - —

PURCHASING AGENT'S BUYING GUIDE

ASCORBIC ACID / Sodium Ascorbate

Quality ➧ United States Pharmacopoeia (XIV)

Source ➧ HOFFMANN-LA ROCHE INC., VITAMIN DIVISION, NUtley 2-5000

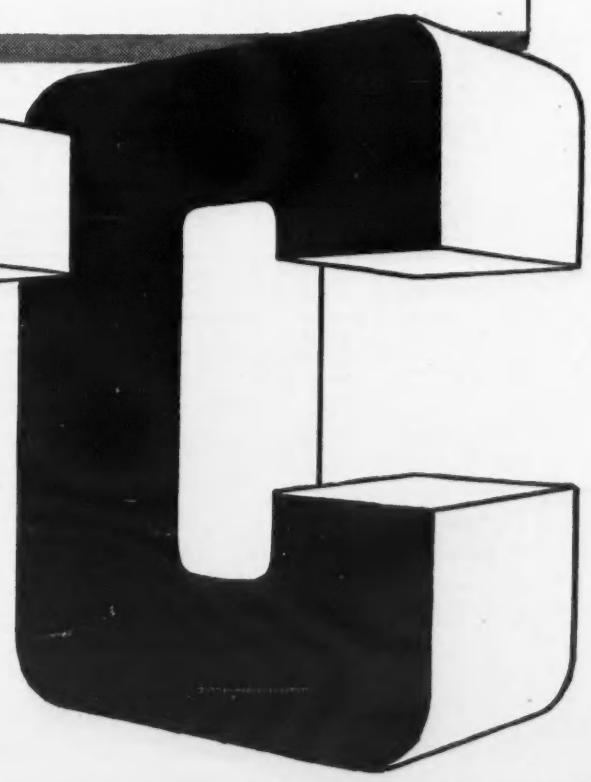
Supply ➧ Roche Ascorbic Acid—Manufactured by the tons

Special qualities ➧ Roche ascorbic acid is available in five types:
GRANULAR FINE GRANULAR FINE POWDER
ULTRA FINE POWDER (Mikro-Pulverized) AMPUL (for parenteral solutions)
These types take care of practically every manufacturing requirement. Samples are available on your request.

Packaging ➧ GRANULAR, FINE GRANULAR, FINE POWDER, AND ULTRA FINE POWDER (Mikro-Pulverized): Packed in polyethylene bags in 1 to 25 Kg. fibre drums. Small quantities in amber screw cap bottles.

AMPUL: Available as above . . . and also in special "Gassed in Glass" (sealed under inert gas) amber glass bottles, 1 and 2½ Kg. sizes.

Sodium Ascorbate ➧ This is the sodium salt of ascorbic acid, U.S.P. It is available in Fine Powder form only, packed in polyethylene bags in 1 to 25 Kg. fibre drums. Smaller quantities in amber s.c. bottles.



CALL ROCHE FOR VITAMINS

Vitamin A acetate and palmitate synthetic
Ascorbic Acid Sodium Ascorbate Panthenol
Riboflavin Biotin Riboflavin-5'-Phosphate Sodium
Riboflavin-5'-Phosphate Diethanolamine
Thiamine hydrochloride Thiamine mononitrate
Niacin Niacinamide Pyridoxine hydrochloride
dl-alpha-Tocopherol unesterified and acetate

VITAMIN DIVISION
HOFFMANN-LA ROCHE INC.
Nutley 10, New Jersey NUtley 2-5000
In Canada: Hoffmann-La Roche, Ltd., Montreal, Que.
Pacific Coast: L. H. BUTCHER COMPANY, San Francisco, Los Angeles, Seattle, Portland, Salt Lake City

Trimethylamine—Waiting

Trimethylamine, 25-40%, dms., c.l., works, frt. equald, 100% basis lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald., 100% basis lb. .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basis lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .37 - —
l.c.l., frt. equald lb. .38 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .0175- —
double grd., bgs., c.l., works lb. .016 - —
single-grd., bgs., c.l., works lb. .015 - —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼- —
l.c.l., frt. alld lb. .27¼- —
tanks, frt. alld lb. .24½- —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin pharmaceutical. 1:80 dms., works lb. 5.00 - —
Tryptophane, dextro-laevo, fib. ctns. works kilo.132.00 -198.00
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 7.75 - —
Tumeric root, Alleppel, bgs lb. .09½- .10
Haitian, bgs lb. .08½- .09
Jamaica, bgs lb. .08½- .09
Madras, bgs lb. .09 - .09½
Turpentine gum (see Naval Stores, Protective Coatings market).
Wood, dest.-dist., dms. extra, c.l., works, South gal. .59 - —
l.c.l., same basis gal. .60 - —
whse., N.Y.C. gal. .70 - —
wood, steam dist., dms., extra, ret., c.l., works gal. .80 - —
l.c.l., ex., whse., N.Y.C. gal. .90 - —
tanks, works gal. .54 - —
Tyrothricin, USP, bots gram. 1.00 - 1.10

U

Urethane, USP dms lb. 1.50 - —
Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs lb. 2.55 - —
yellow, kgs lb. 1.65 - —
Urea, dom., 46%, N bgs., c.l., wks. lb. .05½- —
l.c.l., works lb. .06 - —
44% N, bgs., c.l., 30 tons, frt alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton.142.00 - —
l.c.l., dlvd ton.146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va ton.120.00 - —
C and D grades, tankcars, same basis ton.118.50 - —
37 grade, tankcars, same basis. ton.147.50 - —
Uva ursi leaves, bls lb. .08 - .10

V

Valerian root, Belgian, NF, bls lb. .40 - .50
Valine, dextro-laevo, dms., works lb. 21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.85.00 -86.00
cups, 28-30% tannin, bgs., ex dock. ton.68.00 -69.00
extract, powd., bgs., ex dock, duty extra lb. .09½- —
Vanadium pentoxide, CP, bgs., cns, contract, works lb. 7.00 - —
tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 2.90 - 3.25
Mexican, cuts, tins lb. 3.50 - 3.75
whole, tins lb. 4.60 - 5.10
Tahiti, cs. lb. 2.40 - 2.50
Vanillin, ex eugenol, tins, 25 lbs lb. 5.50 - 7.00
smaller lots lb. 5.55 - 7.25
ex guaiacol, tins, 25 lbs lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25 lb. lots lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. .20¾- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19¾- —
Butylether, normal, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Ether (see Ether divinyl).
Ethylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Vinyl methylether, cyls., works lb. .30 - —
tanks, works lb. .27 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Trichloride, (see Trichloroethane).
Vinylpyridin, ret. dms., works lb. 1.65 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm bots., lots of 100 billion USP units, 1,000,000 units. .02 - —
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm 1,000,000 units. .17 - —
liquid, in oil, 1,000,000 A units per gm 1,000,000 units. .15 - —
natural, concentrates (see Oil, fishliver).
palmitate, liquid, 1,000,000-1,800,000 A units per gm. 1,000,000 units. .15 - —
in oil, 1,000,000 A units. per gm 1,000,000 units. .15 - —
B_1 (see Thiamine hydrochloride).
Vitamin, B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12} gm. or 5 gm. vials gram.350.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gm. bots gram. 4.50 - —
Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 1.75 - 1.80
Tree bark, bls lb. .75 - .90
Warfarin, 0.5%, dms., 50 lbs., f.o.b. N. Y. or Chicago lb. 1.95 - —
25-49 lbs., same basis lb. 2.05 - —
5-24 lbs., cns., same basis lb. 2.15 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton.105.00 - —
merchantable, bgs., ex dock ton.101.50 - —
extract, liquid 35% tannin, bbls., works lb. .11 - .11¼
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra. lb. .11¼- .11⅜
S. Africa, 62%, tannin, ex-dock, duty extra lb. .11⅜- —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot lb. .55 Nom.
Bees, bleached, USP, bricks, cs lb. .78 - .79
slabs, bgs lb. .77 - .78
crude, African, bgs lb. .54 - .56
Brazilian, bgs lb. .70 - .72
Central American, bgs lb. .67 - .69
refined, yellow, bricks, cs lb. .66 - .67
slabs, bgs lb. .65 - .66
Candelilla, crude, bgs lb. .75 - .77
refined, bgs lb. .78 - .80
Powdered candelilla, 20 mesh, 5c. per lb, extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots. lb. .85 Nom.
North Country, No. 2, bgs., ton lots lb. .96 Nom.
No. 3, crude, bgs., ton lots lb. .90 - .92
refined, bgs., ton lots lb. .95 - .96
yellow, No. 1, bgs., ton lots lb. 1.18 - 1.20
No. 2 lb. 1.16 - 1.18
Powdered carnauba price differentials same as powdered candelilla.
Esparto, African lb. .85 - —
Japan, bgs lb. .35 - .40
Microcrystalline, 170°-175° m.p., ASTM, amber ctns., 20,000 lbs. group 3, works lb. .14 - —
Less than 20,000 lbs., same basis lb. .15 - —
170°-175° m.p., ASTM, black, ctns., 20,000 lbs., same basis lb. .12½- —
Less than 20,000 lbs., same basis lb. .13½- —
white, ctns., 20,000 lbs., same basis lb. .25 - —
less than 20,000 lbs., same basis lb. .26 - —
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
less than 20,000 lbs., same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
less than 20,000 lbs., same basis lb. .28 - —
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20½- —
less than 20,000 lbs., same basis lb. .21½- —
black, ctns., 20,000 lbs., same basis lb. .19 - —
less than 20,000 lbs., same basis lb. .20 - —
white, ctns., 20,000 lbs., same basis lb. .33½- —
less than 20,000 lbs., same basis lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
German, crude, bgs lb. .14 - .15
Ouricury, ref., bgs lb. .82 - .84
Paraffin (see P.).
Spermaceti, blocks, cs lb. .27 - .29
cakes, cs lb. .28 - .30
Sugar cane, refined, dom., slabs, works lb. .83 - —
spot lb. .87¼- —
imp., bgs., N. Y. lb. .43 - —
White lead (see Lead., white).
White pine bark, rossed, bls lb. .18 - .20
White precipitate, USP, powd., dms., lb. 5.00 - —
Whiting, limestone, dry-grd., 99.5%, 325 mesh bgs., c.l., works. ton. 6.00 -10.00
smaller lots, works ton. 6.50 -15.00
wet-grd., bgs., c.l., works ton.16.00 -30.00
smaller lots, works ton.21.00 -35.00
Paris white, bgs., c.l. ton.24.00 -31.00
l.c.l. ton.25.00 -40.00
Precipitated, bgs., c.l. ton.16.00 -20.00
l.c.l. ton.25.00 -35.00

wax save this handy specification chart

Warwick Waxes—waxes of proved performance—offer you the broadest selection in the wax field. Whatever your product or your problem—for expert help on formulations, for samples, for technical data, our wax chemists are at your service. Get in touch with Warwick today...ask for our 1952 price list. Prompt delivery. *Stocks in principal cities.*

WARWICK WAXES

NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100g/77°/ 5 SEC.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS® 314	184-189	4-6	4-5	13-15	45-50	EMULSIFIABLE PETROLEUM WAX
CARDIS® 319	180-185	5-7	4½-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS® 320	180-185	5-7	4-5	30-32	80-85	EMULSIFIABLE PETROLEUM WAX
CARDIS® 262	195-200	4-6	BROWN	14-16	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX®	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON® B-20 MEKON® A-20 MEKON® Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO® WAX 180	180-185	4-7	WHITE	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO® WAX 150	145-150	20-25	BROWN YELLOW	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCOSINE	145-150	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	131-133	FULLY REFINED				CRYSTALLINE
SUGAR CANE WAX	174-178	2 MAX.	TAN	23-28	65-77	VEGETABLE WAX ®*

WARWICK WAX Company, Inc., Subsidiary

Sun CHEMICAL CORPORATION

10TH STREET AND 44TH AVENUE, LONG ISLAND CITY, NEW YORK

Wild cherry bark, thick, natural, bls..lb. .06 - .07
thin, natural, bls.....lb. .17 - .19
rossed, bls.....lb. .19 - .22
Ginger (see Snake root, Canadian).
Indigo root, bls.....lb. .30 - .31
Yam root, bls.....lb. .16 - .17
Witch hazel leaves, bls.....lb. .20 - .22
Woodflour, 40 mesh, bulk, c.l., works, East..ton.32.00 - —
l.c.l., same basis.....ton.40.00 - —
60 mesh, bulk, c.l., same basis.ton.37.00 - —
l.c.l., same basis.....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis. ton.45.00 -50.00
l.c.l., same basis.....ton.60.00 -62.00
Woodflour in bgs. extra, returnable.
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs.....lb. .14 - .16
Levant, bgs.....lb. 4.25 - 4.50
Wormwood leaves, bls.....lb. .35 - .45

X

Xanthorrhiza root, bls.....lb. .28 - .30
Xylene (see Xylol).
Xylenol, cryst., 56°-58°C. m.p., ret. dms., c.l., works, frt. equald. lb. .193 - —
l.c.l., same basis.....lb. .196 - —
tanks, same basis.....lb. .18 - —
45°-47°C, dms., c.l., same basis. lb. .153 - —
l.c.l., same basis.....lb. .156 - —
tanks, same basis.....lb. .14 - —
fractions, over 7°C, b.r., except meta, dms., c.l., same basis. gal. 1.31 - —
l.c.l., same basis.....gal. 1.34 - —
tanks, same basis.....gal. 1.20 - —
meta fraction, over 7°C., dms., c.l., same basis..gal. 1.46 - —
l.c.l., same basis.....gal. 1.49 - —
tanks, same basis.....gal. 1.35 - —
Xylidins, mixed, dms.....lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa.....gal. .33 - —
Birmingham district...gal. .30¼ - —
Chicago district.....gal. .33½ - —
Cleveland district....gal. .33 - —
Geneva, Utah.....gal. .25 - —
Hamilton, Ohio.....gal. .32 - —
Johnstown, Pa.....gal. .31 - —
Lackawanna, N. Y....gal. .33 - —
Lone Star, Tex.....gal. .35 - —
Lorain, Ohio.....gal. .31 - —
Minequa, Colo.....gal. .34 - —
Philadelphia, Pa.....gal. .33 - —
Pittsburgh district...gal. .30 - .33
Sparrows Point, Md...gal. .33 - —
Syracuse, N. Y.....gal. .30½ - —
Terre Haute, Ind.....gal. .35 - —
Wyandotte, Mich.....gal. .34¼ - —
Youngstown, O.....gal. .30½ - —
Petroleum, indust., tanks, Albany, N. Y...gal. .33 - —
Bayonne, N J.....gal. .33 - —
Baytown, Tex.....gal. .31 - —
Chicago, Ill.....gal. .33 - —
Philadelphia, Pa....gal. .33 - —
Providence, R. I.....gal. .33 - —
Wood River, Ill.....gal. 33 - —

Y

Yara vara, cns.....lb. 2.25 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms..lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms..lb. .56 - —
300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Yellow barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .35 - —
Barium chromate yellow price differentia in other States and city zones are those for chrome yellow below.
Benzidin, AAA, bbls., dlvd....lb. 1.91 - —
AAOT, bbls.....lb. 2.06 - 2.15
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies.lb. 3.20 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies..lb. 1.32 - —
Cadmium yellows, Los Angeles, and San Francisco, ex whse., 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island..lb. .32 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1½c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 G, bbls., same basis as chrome..lb. 2.05 - 2.15
G, pigment, bbls.....lb. 1.91 - 2.05
Iron oxide, natural, bgs., c.l., works..lb. .0141- .0250
l.c.l., works.....lb. .0166- .0275
French type, bgs., c.l....lb. .04½ - —
l.c.l.....lb. .04¾ - —
Peruvian type, bgs., c.l...lb. .0165- —
synth., bgs., cl., works....lb. .10 - —
l.c.l., works.....lb. .1025- —
Mercury oxide, bbls., 1,000 lbs..lb. 4.15 - —
smaller, lots.....lb. 4.17 - —
Ocher American golden, bgs., works..lb. .01¼ - .02¾
Zinc, (chromate) bbls., dlvd....lb. .27 - —
basic, dlvd.....lb. .30 - —
Yellow dock root, bls.....lb. .18 - .19
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .28 - .30
Yohimbine hydrochloride, bots., tins. oz. 4.75 - 5.25

Z

Zein, bgs., 30,000 lbs. lots, works lb. .38 - —
1,000-lb. to 30,000-lb. lots, works lb. .40 - —
smaller lots, works.....lb. .43 - —
Zinc acetate tech, bbls. dms, works. lb. .26¾ - .28½
NF VIII, dms.....lb. .53 - —
Borate, bgs., c.l., dlvd. E.....lb. .192 - —
l.c.l., dlvd. E.....lb. .202 - —
Carbonate, rectified, powd., dms. lb. .26 - —
tech, rubbermakers bgs, works. lb. .15½ - .16½
precipitated, powd., dms...lb. .26 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 9.60 - —
l.c.l., works .....100 lbs.10.00 - —
gran., fib., dms., c.l., works. 100 lbs.10.60 - —
l.c.l., works .....100 lbs.11.00 - —
solution, 50%, dms., c.l., works 100 lbs. 4.75 - —
l.c.l., works .....100 lbs. 5.35 - —
tanks, works.....100 lbs. 4.10 - —
NF, gran., dms .....lb. .42 - —
Chromate (see Yellow zinc).
Cyanide, kgs., works.....lb. .523 - .542
Dust, bbls., c.l., works.....lb. .23 - —
l.c.l., works.....lb. .24 - —
Fluoride, bbls., works.....lb. .40 - —
Hydrosulphite, dms., c.l., frt. alld. lb. .21½ - —
l.c.l.....lb. .22 - .37½
Iodide, NF, jars.....lb. 4.92 - —
Laurate, bbls.....lb. .45 - .46
Metal, slabs, E. St. Louis.....lb. .19½ - —
Naphthenate, liquid, 8% Zn, frt. alld..lb. .23½ - —
10% Zn, dms., frt. alld....lb. .28½ - —
Oleate, fused, bbls.....lb. .36 - —
Oxide, pigment, dom., acicular, bgs., c.l., dlvd..lb. .176 - —
l.c.l., dlvd.....lb. .186 - —
American process, com'l, lead-free, bgs., c.l., dlvd..lb. .176 - —
l.c.l., dlvd.....lb. .186 - —
leaded, 35%, bgs., c.l., dlvd..lb. .1815- —
l.c.l., dlvd.....lb. .1915- —
50%, bgs., c.l., dlvd..lb. .1835- —
l.c.l., dlvd.....lb. .1935- —
French process, com'l, green seal, bgs., c.l., dlvd..lb. .1935- —
l.c.l., dlvd.....lb. .2035- —
red seal, bgs., c.l., dlvd. lb. .1885- —
l.c.l., dlvd.....lb. .1985- —
white, seal, bgs., c.l., dlvd..lb. .1985- —
l.c.l., dlvd.....lb. .2085- —
USP, ctns., c.l., dlvd.....lb. .2085- —
l.c.l. dlvd.....lb. .2185- —
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs.
Phenolsulphonate, NF, gran., dms. lb. .39 - —
powd., dms.....lb. .42 - —
Resinate precip., dms., frt. alld.lb. .26 - —
Silicofluoride, bbls., works.....lb. .13 - .14
Stearate, tech., USP, ctns., c.l. lb. .37 - —
ton, lots.....lb. .38 - —
less ton lots.....lb. .39 - —
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld..100 lbs. 7.30 - —
l.c.l., same basis..100 lbs. 7.70 - —
flake, 25½%, Zn, bgs., c.l., works..100 lbs. 6.55 - —
l.c.l., works.....100 lbs. 6.90 - —
powdered, 36%, Zn, bgs., c.l., frt. alld..100 lbs. 9.95 -10.45
l.c.l., same basis..100 lbs.10.70 -11.20
Zinc sulphate in bbls., 40c higher.
USP, gran., dms.....lb. .26 - —
Sulphide, pure, bgs., c.l., dlvd. lb. .253 - —
fluorescent, fib., dms., less than 1,000 lbs., works lb. 1.10 - 1.90
phosphorescent, fib., dms., less than 1,000 lbs., works lb. 1.85 - 2.50
Undecylenate, dms.....lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works..100 lbs. 9.05 - —
l.c.l., works.....100 lbs. 9.45 - —
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works..lb. 2.10 - 2.90
Zinc-calcium resinate, dms., c.l., works..lb. .1180- .1360
l.c.l., same basis.....lb. .1220- .1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l..lb. .25½ - —
l.c.l.....lb. .26 - .41½
normal, dms., l.c.l., works lb. .52 - —
Zircon, (G), granular, bgs., c.l., works..lb. .03½ - —
5 tons to c.l., works ...lb. .03⅜ - —
1 ton to 9,999 lbs., works lb. .03⅜ - —
500 lbs. to 1,999 lbs., works. lb. .04 - —
less than 500 lbs., works lb. .06½ - —
Zircon (G), milled, bgs., c.l., works lb. .04½ - —
5 tons to c.l., works ...lb. .04⅜ - —
1 ton to 9,999 lbs., works lb. .04⅝ - —
500 lbs. to 1,999 lbs., works. lb. .05 - —
less than 500 lbs., works lb. .07½ - —
Zircon (G) in barrels, ¼c. higher.
Zirconium acetate 13% sol ZrO_2, c.l., 30,000 lbs., minimum works lb. .23 - —
Carbonate basic, cake bbls., works lb No prices.
Hydride, cns., works.....lb. 7.50 -10.00
Nitrate, dms., ex whse.....lb. 4.50 - 7.00
Oxide 98½-99% white grd., bbls. or bgs., works lb. 1.50 - —
lump electric-fused, bgs., c.l., works lb. .44 - —
5 tons, works lb. .44½ - —
1 ton to 9,999 lbs., works lb. .45 - —
500 lbs. to 1,999 lbs., works lb. .45½ - —
less than 500 lbs., works lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5 tons, works lb. .59½ - —
1 ton to 9,999 lbs., works lb. .60 - —
500 lbs. to 1,999 lbs., works lb. .60½ - —
less than 500 lbs., works lb. .63 - —
Oxychloride, cryst., ctns., 5 tons, works lb. .32¼ - —

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14 Leather Finishes and Dressings
15 Leather Packing
16 Lubricant for Ironers and Presses
17 Lubricant for Thread and Cord
18 Matches
19 Mold Lubrication
20 Paper Coatings
21 Paper Impregnating
22 Paper Sizings
23 Phonograph Records
24 Polishes
25 Printing Inks
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Volume 161 March 31, 1952 Number 13

History Must Not Repeat

Those who concern themselves, even though vicariously, with the future of business are beginning to make guesses on what is going to happen to the overstretched production facilities of this country when they are not longer called upon to support the program of national defense. That is a question which has come up before in this century. It is to be noted that its first appearance, after the first world war, was a matter of hindsight: what happened was almost totally unexpected. There is not, however, any convincing reason to believe that, because the possibilities and probabilities are being foreseen, this time, they will be avoided. The big question now is what to do to escape the undesirable effects of what was called overproduction thirty-odd years ago; but was and will be under consumption. That is being recognized by those who are publicly discussing the problem, and they are almost unanimous in their opinion that the solution must be sought by way of better selling. Naturally, however, there is a very expansive difference in their views as to what is or will be better selling. It is not encouraging to be told by some of the diagnosticians who essay the complementary role of prescriber that consumers still buy for the same reasons that influenced them a half-century ago. With respect of many purchases that is, of course, true. In spite of all sorts of changes in needs and desires, most of them (in number, if not in cost) remain the same. It must also be said that the same influences still have an extensive effect for the simple reason that no good new ones have been brought into application. The old-time, subtly instilled fear of being objectionable (in odor, appearance, or some other respect) is still relied upon to promote the sale of many, many things. The philosophy of selling must lean largely toward the pragmatic. Nevertheless, it is somewhat incongruous in these days of altitudinous scientific and technologic dissertations to see on the business page of a conservative metropolitan newspaper an article headed:—"Industry Using Stunts Again to Draw Buyers."

Some encouragement is to be found in the programs of sales-promotion which are being proposed in specific business groups. These emphasize the need for larger sales forces and for better training in ability to analyze buying trends and to make mutually beneficial use of them. Sociologic research is being applied in areas of business planning—a conference of research workers in about a dozen fields of social science and philosophy was held in New York during the past week with the purpose of endeavoring to translate past experiences into an economic conception of things to come. An attempt was made to look beyond the immediate objects of applied science to the potentialities of free research in the broad field of more or less uncharted experimentation in unknown areas. Much can be learned in that manner.

Promoters of all sorts of schemes, some motivated by political ambitions; others, by the possibilities of profit, will be busier in the dawning of the civilian buyers' market than they are now in trying to preach a gospel of governmental economy which, whatever the cost, will not allow small enterprises and slack communities to be deprived of their share (measured by the promoter's gauge) of what is spent for defense.

Business has it within itself to meet the call for more effective, less costly selling. Because of its apparent lack of a definite understanding of why various industries—the textile industry is an outstanding example—are not prospering today, business adduces no assurance for the general public that it will meet the challenge to come with the decline of the defense program. That must be remedied: the alternative will be the setting up of a field day for the eager governmental opportunists whose objective is a nationalized economy. Those folk are now much better prepared to act than they were on the occasion of either of the opportunities of the 'twenties. A much lesser depression would suffice for their purpose in the next year or two. Therefore, there must be no depression. That is what business will be called upon to sell. It cannot afford to fall down on that job.

Check on Cooperatives

Among the sometimes heard predictions of the more "advanced" analyzers of developments in commercial economy is one that the future of distribution of consumer goods must be in the hands of retailing chains and consumer cooperatives. The supporting argument is that only in that way will it be possible to pass along to the consumer, as he deserves, the lessened costs of mass production—the cost of distribution is recognized by many whose economics is not nearly so advanced to be one of those on which industrial progress has not had its potential cheapening effect. In the outskirts of such prophets are some who hold that a place will long be available to cooperative organizations of distributors at one or more stages. And the policies and processes of such groups in many instances stand up to the argument of cheaper operating.

Whatever may be the accuracy of the more restrictive prediction, the status of the distributor cooperative has been clouded somewhat by a ruling of the Federal Trade Commission which has required a cooperative organization of retail and wholesale grocers to cease accepting brokerage fees from manufacturers and processors of goods which it handles. That, of course, is a practice prohibited by the Robinson-Patman act. The prohibition did not find favor with the members of the commission who expressed reluctance toward the necessity of following the letter of the law albeit the provision was in some degree contrary to the fundamental purpose of the act—to give the small distributor benefits accessible for the chain organizations. In the words of the commissioner who has always taken a sound view of the cross-purposes at which the statutory regulation of competition works:—

"We are here enforcing a law which in effect decrees that a certain cut of the housewife's grocery dollar must go as a broker's gabelle or else be pocketed by the manufacturer, rather than have it seep down to aid either grocer or consumer."

Economic developments must in large part be conditioned to the peculiar statutorial requirements applying to all economic activities; that is true in the social, as well as the commercial, areas of the economy. It is encouraging to find an administrative officer who is cognizant of the inequity involved. But, it is too much to expect any legislative political economist to be inclined to remedy the fault. In the politicomics of competition, the consumer is usually the forgotten man.

Washington Talks It Over

—*Continued from page 5*

of supply the full effect of the rise in foreign watch movements and the decline in domestic watch makers became known.

For all practical purposes, there is no American jewel bearing industry. What industry does exist is most an assembly industry with practically all the basic maufacturing done abroad. The Munitions Board is endeavoring now to correct this situation by providing the nucleus for a jewel bearing industry among the Indian tribes of the west. Indian labor is a "natural" for the tedious manipulative work such as in jeweled bearing finishing, is intelligent and has the great advantage for a training program of being largely nonmigratory.

Army Ordnance, acting for the combined military forces, is weighing the possibility of an Indian training pilot line, but is not committed to any state site as yet.

Breaking Industrial Bottlenecks

The Department of Defense and the National Production Authority have developed new joint procedures for breaking industrial bottlenecks which impede production of high urgency military items. The procedure permits a manufacturer to appeal directly to NPA if, after five days, the military agency expediting the handling of the bottleneck has not solved the problem.

Manufacturers contributing to the production of these special military end items, including subcontractors and suppliers, will first attempt to break bottlenecks with their own resources. If this fails, the plant representative will pinpoint the cause of the bottleneck and report the matter to the designated field military agency. If this agency can't break the bottleneck in five days or less, the contractor will appeal directly to NPA, with certification of the urgency by the local military representative, and NPA presumably will direct that whatever materials are necessary shall be made available.

It is emphasized that the bulk of special assistance requests will be made only to expedite delivery of materials and components needed for the production of a few highly important end items designated by the Secretary of Defense. Bottlenecks in the other military items will be handled in the usual fashion.

Antimalarial Drug Testing

Late last year the army disclosed that it had a new antimalarial drug, primaquine, under active testing among returnees from the Korean campaign. Recently, it was announced that extensive follow-up tests are now underway on volunteer subjects who were exposed to malaria in Korea but have no history of the disease. These tests are expected to furnish conclusive proof of the new drug's ability to prevent attacks of clinical malaria.

The incidence of malaria in Korea, a highly malarious country, has been kept low with chloroquine, considered an excellent suppressant. Like atabrine and quinine, however, it is neither a preventive nor complete cure for malaria. Primaquine has appeared to be particularly effective against the tissue phase of the disease because it attacks the stubborn parasites in the liver cells. Observers have felt that by treating the parasites in the blood stream with chloroquine and those in the liver with primaquine it may be possible to effect rapid cures for malaria.

The follow-up tests are being made on about 1,000 soldiers who returned to the United States prior to last December, but received only chloroquine while in Korea. They will receive the regular dose of primaquine for the next fourteen days and be kept at their posts for clinical observation until next October. Of special interest will be the summer months which is the critical period for malaria relapses among those previously exposed to the disease. It is hoped that the use of primaquine will prevent these break-throughs.

OPS Costs in 1951

The Office of Price Stabilization says that it cost only 36 cents per person to stabilize prices last year which is pretty cheap considering what it might have cost consumers if prices were allowed to reach their peak limits. Multiplied by the 150,000,000-odd people in the United States, this 36 cents per head figures out to a total expenditure of over $55,700,000.

This amount was spent in employing 7,405 persons of whom 1,752 were employed in the Washington headquarters and 5,653 in the fourteen regional and eighty-nine offices. The Washington workers got $10,508,892 in salaries and the field employees received $28,672,858. The rest of the $55,700,000 was made up in costs of printing, distributing regulations, printing, purchase of desks, typewriters, etc., and divided as follows:—$8,845,478 in the national office and $7,676,330 in the field.

It's going to be more expensive this year, even though prices are softer and the trend is down. For the fiscal year 1952, which began last July 1, the agency's budget allocation was $71,167,500 and as of the end of last month, it already had obligated itself for $45,071,206. OPS now has 11,796 persons on its payrolls—2,476 in Washington and 9,320 in field offices.

Washington in Brief

NPA has named J. Stokes Carswell acting director of its general industrial equipment division . . . Conley H. Dillon now heads up the service trades branch of the OPS services, export-import division . . . Charles E. Gately, PAD assistant general counsel, takes over tomorrow as director of the agency's district 1. which comprises seventeen eastern seaboard states and the District of Columbia . . . Dr. Melvin A. Casberg moves up from vice-chairman to chairman of the Armed Forces Medical Policy Council on April 1 . . . Dr. Albert L. Washburn has become scientific director of the defense department's snow, ice and permafrost research installation at Wilmette, Ill.

Railroad men voiced dissatisfaction last week to NPA with the continued low quarterly allotments for the production of locomotives and freight cars . . . From wire and cable producers, NPA heard a recommendation for an immediate withdrawal of copper from the government stockpile . . . OPS has allowed Capehart ceiling adjustments under CPR 22 for makers of replacement parts . . . DPA has fixed an expansion goal of 32,000,000 kilowatts of new electric generating capacity by the end of 1954 for class 1 utilities . . . Production targets for paper, paperboard and wood pulp by the beginning of 1956 set at 14,268,000 tons, 13,030,000 tons and 19,048,000 tons, respectively.

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Heavy Chemicals

Scattered upsurges in sales last week encouraged hopes for the development of a broader demand for heavy chemicals but some of the major producers were not too optimistic over the immediate outlook. Aside from chlorine and sulphuric acid, the overall supply position has continued to improve. Contract consumers of sulphuric acid are receiving shipments regularly and there seemed to be less complaint over the movement. The chlorine situation did not change materially. The supply of spot tanks is regulated by the extent of contract withdrawals of chlorine and the slack varies from day to day. Soda ash remained in free supply with producers in a position to consider contracts for prompt or future delivery. Some makers of caustic soda by the lime-soda process have cutback output in an effort to narrow the margin between supply and demand but there is no shortage of either the liquid or dry forms at the present time.

Market conditions in anhydrous ammonia continued tight regardless of increased production and suppliers cannot see any easement in stocks until the agricultural movement has passed its peak. Aluminum sulphate has worked into better supply shape under less pressure for shipments. Kraft paper mills are still calling for sizable quantities of salt cake while byproduct production has been cutback by a slowdown of activities at rayon plants. Possibilities of a strike at steel mills have caused some deferment of copper sulphate shipments to the steel industry but agricultural demand has remained exceedingly active. There was not much life to the movement of potash chemicals, relaxation of inquiry from glass plants has left potassium carbonate definitely quiet. Most of the fluorides were not in excessive supply but available for immediate delivery. Calcium chloride has drifted into a between season period of inactivity. Increased building operations were reflected in an increased demand for some of the tin salts. Producers of tin based chemicals are hoping for easement of government restrictions for end uses sometime this year. RFC has reached an agreement with Belgium which insures tin supplies from that country over the next two years.

Paper production based on a percentage of six-day capacity was 95.9 percent for the week ending March 22, according to the American Paper and Pulp Association. This compared with 95.3 in the preceding week and 102.4 for the corresponding week in 1951.

Ammonia, Anhydrous — Demand continued to exceed supply, leaving the market position tight. Increased production is being readily absorbed and suppliers do not look for any easement in stocks until the agricultural season has passed its peak, possibly in June.

Ammoniac, Sal—Small lot sales predominated in this market at the close of the month. Aggregate shipments of white granular for dry-battery use do not compare favorably with those of a year ago and have not been of sufficient dimensions to tighten the supply position. Prompt shipments were available at current prices.

Bleaching Powder—Remained in short supply for civilian use as the government is taking sizeable quantities from current production. No easement in sight at present.

Calcium Chloride — This market has drifted into a sort of between seasons' affair. Some material is still being shipped to the Midwest, but the call for ice control is about over and it is too early for highway requirements. Stocks were not much of a problem over the Winter season, and most producers still have inventories.

Chlorine—Some easement in the availability of spot tanks was noted during the past month. When contract consumers did not withdraw their full monthly allotments the slack was offered on spot, and usually found ready buyers. It was stated that any real pickup in consuming demand would quickly tighten the spot situation, meanwhile, spot tanks are occasionally available.

Cobalt Hydrate—Bureau of Mines placed December, 1951, production at 26,587 pounds, gross weight, compared with 8,246 in the preceding month. Shipments in December amounted to 27,420 pounds, against 16,359 in November. Stocks on December 31 were 10,138 pounds, compared with 10,971 on November 30.

Market Trends

Prices Advanced
None
Prices Reduced
None

Comparative Price Indexes

General Chemicals
(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
249.2	249.2	249.2	223.4	244.9

Acids
(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
124.1	124.1	124.1	121.9	126.1

(*For Current Prices see Page 9*)

Copper Sulphate—Agricultural inquiry is described as strong and at present it looks as though more may be required than in 1951. May-June shipments are still being booked at prices time of shipment. Industrial demand remained active although prospects of a steel strike has resulted in some deferment of shipments to that industry. Foreign demand continued broad, with exporters finding it a bit more difficult to obtain licenses.

Potash, Caustic—Buying interest at the close of the month was rather spotty, with no apparent increase in the sales volume. In some producing quarters a moderate upsurge was reported in the inquiry from the soap and textile industries, but it was indefinite as to whether the increase was permanent or temporary.

Potassium Carbonate—Glass plants have shown no unusual interest in the market over the past month. Demand from other sources continued irregular, and the market at best was a relatively tame affair. Meanwhile, the supply situation has improved and immediate shipments have remained available.

Australia imports its requirements of potassium carbonate and caustic potash. The extraction of suint from wool was considered a promising source, but the high cost of the necessary plant has deterred the project. It was hoped that the State government enterprise exploiting alunite deposits at Lake Chandler, Western Australia, would produce potassium chloride, making possible the manufacture of the carbonate and caustic. However, owing to technical difficulties and uneconomic operation, the works, which produced a mixture of potassium and sodium sulphates, suspended operations recently for an indefinite period.

Potassium Stannate — Narrow consuming channels have kept the supply situation comfortable. Producers hope for the lifting of some government restrictions on end uses before the year is over but current sales are only of limited dimensions.

Salt Cake—Shipments to the kraft paper mills have been sustained at a fairly steady level. Supplies are not short at present although it was stated that output has been lessened by the slowdown in production at rayon mills.

Soda Ash—Supply conditions have remained easy over the month of March. Production was never under pressure and consumers could have purchased immediate or future shipments without difficulty. In some instances, production was cutback in order to keep the market in balance. The present outlook is uncertain owing to the slowdown of activities in some of the major consuming industries.

The recent completion of the Planta de Soda de Betania, Colombia, is an important addition to the country's industrial plants. The factory has been under construction for 3 years by the Instituto de Fomento Industrial, a government agency, at a cost of 25,000,000 pesos (2.51 Colombian pesos equal US $1). It will produce 100 metric tons of soda daily for the manufacture of 50 tons of dense soda ash for the glass industry and 50 tons of light ash to be used in the manufacture of 30 tons of caustic soda and 12 tons of refined sodium bicarbonate. It is estimated that the new plant will save $4,000,000 annually in foreign exchange.

Soda, Caustic—No shortage of stocks at present with demand rather spotty and not of the pressure type. With increased production of chlorine coming in this year and a proportionate increase in electrolytic caustic soda, it is expected that output by the lime-soda process will experience a further cutback in an attempt to keep the market in balance. At present

For Late Market Developments, See Page 4

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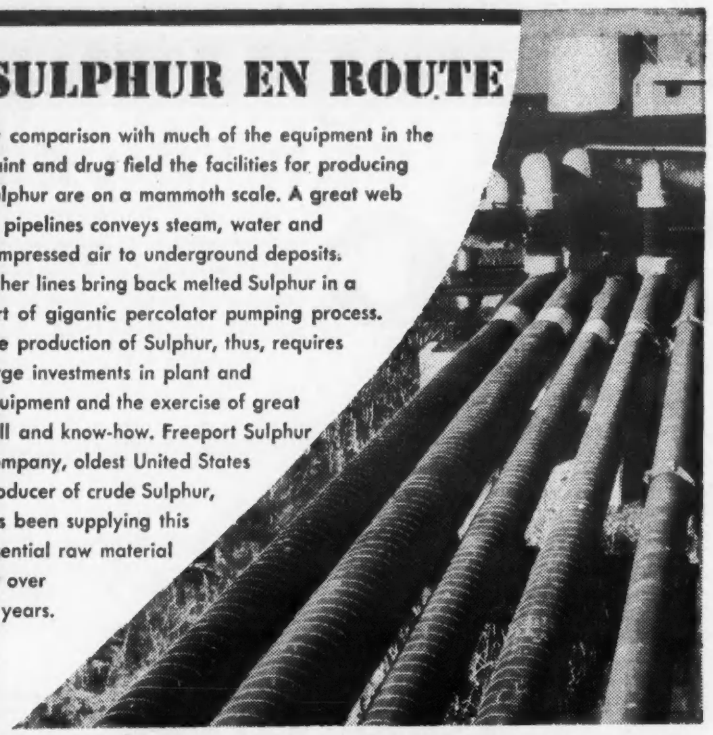

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prompt or future contracts can be placed by consumers without difficulty.

Sodium Antimoniate—Signs of a pickup in consuming demand were noted last week after a period of several weeks of slow sales. Increased building activities was given as the primary reason for the improvement. There is no scarcity of stocks at present and producers are in a position to make immediate shipments.

Sodium Bicarbonate—Market has remained in relatively free supply over the past month under a rather spotty demand. Unlike conditions prevailing a year ago, there is more supply than demand at the present time.

Sodium Stannate—Unless there is some modification of government restrictions on end use, a quiet market can be expected indefinitely. Producers' stocks appear sufficient to take care of any increase that may develop. There has been no change in the basic metal to prompt any price revisions in the sodium.

Acids

Hydrofluosilicic—Not unusually active but maintaining a steady position. Consumers have taken on stocks for current wants and small lot sales have predominated.

Muriatic—Inquiry was on a somewhat broader scale last week with signs of better volume reported. There was no shortage of stocks and immediate shipments continued available from first hand supply sources.

Nitric—Sustained production has kept the supply position comfortable, and the market held a steady degree of balance. Producers offered immediate or prompt shipments at current price levels.

Oxalic—No unusual activity over the past month. First hand inventories have been fully equal to the current extent of consuming demand.

Phosphoric—According to producers, demand and supply have been well equalized over the past month. Stocks not excessive but meeting consumer requirements without difficulty.

Sulphuric—Stringency in sulphur has placed a limit on how much acid can be produced. Regular consumers, however, are not complaining over current shipments and supplies while tight did not appear to be under the same amount of consuming pressure as noted at the beginning of the year.

Nonferrous Metals

Copper — Consumption of copper-base scrap, recovery of secondary copper, unalloyed and in alloys, and recovery of all secondary metal from copper-base scrap decreased 3, 2 and 5 percent, respectively, in December, according to the Bureau of Mines. Total secondary output from copper-base scrap was less than for any other month of the year, except September, and this was true of the production of primary producers, and secondary smelters or ingot makers. Activity of the brass mills decreased less than that of the other groups. Consumption of copper-base scrap by the brass mills in 1951 was virtually the same as that of the secondary smelters; that of the latter being about 10,000 tons greater than that of the brass mills in the first six months and less by about the same quantity in the last half of the year. Each group used nearly the same total quantity of scrap in 1951 as in 1950. Production in January was placed at 77,715 tons.

Lead—Secondary smelter operations in December fell considerably below the November level, according to the Bureau of Mines. Receipts and consumption of lead-base scrap and residues dropped 25 and 12 percent, respectively, and recovery of secondary lead, tin and antimony fell from 47,126 short tons in November to 38,857 tons in December—a decrease of about 18 percent. The decline was chiefly attributed to bad weather conditions and the holidays. Lead alone recovered from scrap in 1951 is estimated at about 498,000 tons. An average of 56,372 tons of lead- and tin-base scrap was consumed each month with an average monthly recovery of 43,080 tons of lead, tin and antimony.

Molybdenum—According to the Department of Commerce, 1,230,373 pounds (contained molybdenum) in concentrates and molybdic oxide were exported from the United States in the fourth quarter of 1951, compared with 1,407,035 pounds in the previous quarter. Exports in the fourth quarter comprised 446,297 pounds to Germany, 329,509 pounds to United Kingdom, 187,811 pounds to France, 119,566 pounds to Sweden, 73,122 pounds to Italy, 63,372 pounds to Canada, 9,996 pounds to Austria, and 700 pounds to Canal Zone. There were no imports of molybdenum in the fourth quarter.

Quicksilver—Market situation remained quiet with spot offerings light and buyers apparently content to wait out future developments. April-May arrivals were priced at $208 per flask, with a possibility of shading this figure on a firm offer.

Bureau of Mines states that for 1951 as a whole the consumption of quicksilver was 56,600 flasks, second only to that in 1945. The putting into operation in November of a new chlorine plant using mercury cells at Saltville, Virginia, was a chief reason for the record performance. The agricultural use of mercury also showed a noteworthy advance, but most other uses declined in 1951. Three new chlorine plants, which will use mercury cells, were under construction in 1951. These are at McIntosh, Alabama; Muscle Shoals, Alabama, and Calvert City, Kentucky. Domestic production rose 58 percent above 1950 to 7,150 flasks, but except for that year was the smallest since 1922. Output increased throughout the year, and 46 percent of the total was produced in the final quarter. Several large mines resumed production during the year. World production capacity is adequate for known world needs. This, combined with the fact that our strategic stockpile is more comfortably supplied with quicksilver than with most strategic commodities, placed quicksilver low on the list for aid under the Defense Production Act. Properties

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that could fulfill certain specifications, however, were granted exploration loans on a matching-funds basis, the government meeting 75 percent and the operator taking care of 25 percent of costs.

Imports dropped 26 percent from the 1950 rate to 44,925 flasks, but were higher than all other earlier years except 1943, 1945 and 1949. Italy and Spain were the sources of 69 percent of imports. Exports and re-exports continued to be equivalent to only a very small fraction of imports. Quicksilver inventories dropped from 33,882 flasks at the beginning of the year to 27,419 flasks at the end, chiefly because of withdrawals therefrom for the Virginia chlorine installation. Stocks at the end of the year remained higher than usual, nonetheless, owing to the accumulation of metal for additional plants of this type.

Silver—Mine output of recoverable silver in January was 3,161,428 ounces a decline of 5 percent, compared with the preceding month, and on a daily average basis was also 5 percent less, according to the Bureau of Mines. There was a considerable variation in the change in the production rate of the principal silver-producing states. Outputs in Arizona, Idaho, Nevada, New Mexico, and Utah were 6, 9, 18, 2 and 8 percent smaller, respectively; and outputs in California, Colorado, and Montana were 10, 6 and 8 percent greater, respectively.

Tin—World tin ore production in January was 13,300 long tons against 14,000 in December, the International Tin Study Group reported. Malayan production was lower at 4,743 tons, Indonesian down to 1,965, lowest figure since Feruary, 1948, while Bolivian exports increased substantially to 2,953. Belgian Congo output was 1,156 tons. The only figures so far available for February show that Indonesian production recovered to 2,321 tons and the Belgian Congo to 1,093. World metal production in January was 13,400 tons against 13,100 in December. Malaya's output was substantially lower at 4,391 tons. Britain's slightly higher at 2,873 and the United States steady at 1,802. Dutch production was estimated at 2,450 tons.

RFC has made an agreement with Association of Belgian Congo tin producers for delivery of 7,000 minimum and a maximum of 9,000 tons of tin a year. The price is $1.20¾ per pound delivered at American ports. The contract is valid for 2 years.

Tungsten—General imports of tungsten ore and concentrates in the United States were 3,132,600 pounds (tungsten content) in the fourth quarter of 1951, according to the Bureau of Mines. This quantity represents the ore and concentrates received in the United States irrespective of ultimate disposition; about 35 percent of these imports entered bonded warehouses. Brazil (450,834 pounds), Portugal (448,457 pounds), Spain (400,476 pounds), Bolivia (360,477 pound), Australia (355,870 pounds), and Japan (331,707 pounds), supplied 75 percent of the total receipts.

Zinc—Total consumption of slab zinc in the United States continued to decline, falling to 71,488 short tons in December, according to the Bureau of Mines. The use of zinc in rolled products declined 23 percent from November, in galvanizing 3 percent and in die casting was virtually unchanged. Only slab zinc consumed in brass and bronze products showed a gain over last month. At the end of December stocks of slab zinc at consumers' plants were 50,352 tons, 13 percent higher than at the end of November, and the highest monthly total since August 31, 1951. Responsible for this gain in stocks were increases of 32 percent in inventories at brass mills and ingot makers, 10 percent at die casters and 9 percent at galvanizers. Smelter stocks of slab zinc, however, were 13 percent lower than last month. Zinc dust producers reported total inventories of 735 tons of dust on December 31.

McKenna Sets Up in D.C. As Chemical Representative

Charles F. McKenna, jr., a veteran of thirty years' experience in the organic chemical and process industries, has established an office at 2300 Connecticut avenue, Washington, D. C., where he will represent industrial groups operating in the chemical and chemical process industries. His telephone number is Hudson 7700.

Mr. McKenna as Washington representative for the past year for all divisions of General Aniline & Film Corporation, New York, handled dealings with departments of the government relating to the procurement of raw materials under directives or allocations. Prior to joining General Aniline in 1945, he wa. with Commercial Solvents Corporation for seventeen years in the market development and sales departments.

Trade Briefs

Plax Corporation, Hartford, Conn., has named P. J. Murphy and C. N. Sprankle sales managers of blownware products and extruded products, respectively.

Pittsburgh Plate Glass Company has named William C. Van Clief, jr., manager of its new power driven brush plant at Baltimore, Md.

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NPA Proposes 5 Can Order Relaxation Moves

Five proposed major changes relaxing M-25, the can order, were presented to the can manufacturers industry advisory committee by the National Production Authority in a meeting March 25. However, NPA cautioned members that the proposed relaxation could not be considered if there is a work stoppage in the steel industry.

The proposed relaxation of M-25 would begin with the second quarter of 1952, retroactive to April 1, even if the amendment is not formally issued until after the second quarter starts. Committee members would prefer retroactivity to January 1, 1952, to give can users a small additional quantity of cans in their quarterly carry-over quota. The proposed amendment would:—

1. Completely decontrol the use of tin mill blackplate by removing it from the restrictions of the order.
2. Allow an increase in the permitted rate of use of cans for all three groups in schedule 1.
3. Decontrol fiber body cans.
4. Ease restrictions on users having only one line of canning equipment.
5. Increase the quota of gallon cans used in packing antifreeze.

Order M-25 divides uses of cans into three groups and sets a percentage rate of use for each group related to area or weight of plate used during the base period. The proposed amendment would raise all items in group 1 to unlimited group 1. For group 1 items which presently are not permitted unlimited use of cans, a rate of 100 percent or more of base period usage is specified for each product. The amendment would raise all items in group 2 from the present 90 percent to 100 percent of their base period use of cans. Group 3 items would be raised from the present 70 percent limitation to 90 percent of their base period use.

Davison Now Making Raney Nickel Catalyst

Production of Raney nickel catalyst, which is used in industrial hydrogenation operations, has been started by The Davison Chemical Corporation in its specialty catalyst plant at Curtis Bay, Baltimore.

The product, named after Dr. Murray Raney, its first producer, is described as essentially a spongy form of nickel, produced by leaching aluminum from an alloy of approximately 50 percent aluminum and 50 percent nickel. The leaching is done by a 25 percent solution of caustic soda, which reacts with the aluminum to produce sodium aluminate with the evolution of hydrogen. Enough heat is produced to boil the solution and a steam jacket on the bottom of the leaching tanks keeps the mixture at its boiling point. The sodium aluminate is washed out. The resultant catalyst is said to have a maximum particle size of 140 mesh and a very high surface area. When used in hydrogenation the catalyst can be filtered out of the oil and reused as many as 250 times or more, the producer states. When it dries it undergoes rapid oxidation and ignites. For this reason Davison ships it under water.

Rockwell Appoints Two

C. K. Madison, southwest regional sales manager of Rockwell Manufacturing Company, Pittsburgh, Pa., has announced the appointments of M. D. Gilbert as Kansas City district sales manager and Roy R. Bush as Tulsa district sales manager. Mr. Gilbert became affiliated with the Pittsburgh Meter Company, now a Rockwell division, in 1924, and since 1944 he has been Tulsa district sales manager. Mr. Bush joined Rockwell's sales staff in the Tulsa area in 1934, and has been sales manager of oil field products in Pittsburgh since 1951.

Synthetic Fiber Output Seen At 400,000,000 Lbs. by 1953

Production of truly synthetic textile fibers in the United States will total approximately 400,000,000 pounds annually by 1953, it was forecast March 27 as the American Chemical Society ended the Buffalo, N. Y., session of its 121st national meeting. Dr. Joseph B. Quig, manager of the textile research division of the textile fibers department of E. I. duPont de Nemours & Co., Wilmington, Del., said that the present status of the synthetic fiber industry is a "far cry" from that which existed when ACS met in Buffalo in 1931.

Dr. Quig referred to a report at that meeting presented by the late Dr. Wallace H. Carothers and Dr. Julian W. Hill, duPont chemists, on the first polyester fiber ever made. This was the forerunner of the present "Dacron" polyester fiber and the polyamide fiber, nylon. Citing an account of that 1931 report, Dr. Quig noted the polyester fiber was called "too expensive to manufacture commercially."

Nylon confounded the forecast to become a commercial in 1939 and "Dacron" polyester fiber, for which a manufacturing unit is being constructed at Kinston, N. C., is scheduled to become a commercial reality next year. In addition, Dr. Quig pointed out, there are such other new fibers as "Orlon" acrylic fiber, "Acrilan" acrylic fiber, and dynel, also in the acrylic family, and "Vicara" protein fiber.

Canadian Exports: Dec.

Exports of various commodities from Canada in December, as compared with December, 1950, and the twelve-month period of 1951, have been reported as follows:—

	December 1951	December 1950	Jan.-Dec. 1951
Abrasives, artificial, crude	$1,769,000	$1,323,000	$21,377,000
Acids	370,000	265,000	5,823,000
Asbestos and products	7,478,000	5,816,000	81,831,000
Calcium compounds	224,000	139,000	2,758,000
Chemical products, other	3,999,000	3,751,000	48,895,000
Cobalt oxides and salts	117,000	8,000	1,172,000
Copper and products	12,637,000	7,389,000	87,188,000
Drugs, medicines and pharmaceuticals	530,000	298,000	5,970,000
Fertilizers	2,954,000	3,368,000	35,734,000
Lead and products	5,768,000	5,935,000	45,392,000
Nickel	13,407,000	8,359,000	136,689,000
Paints and varnishes	663,000	339,000	7,999,000
Petroleum and products	266,000	18,000	2,038,000
Polystyrene	956,000	272,000	6,776,000
Soda and sodium compounds	636,000	541,000	9,680,000
Synthetic resins and products	377,000	458,000	4,196,000
Vegetable fats and oils	252,000	205,000	3,649,000
Zinc and products	7,690,000	5,416,000	84,450,000

Steel Shipping Barrels Output Decreased in Jan.

January production of steel barrels and drums, on an average working-day basis, was 1 percent less than December and 21 percent under January, 1951, figures, according to the Bureau of Census. During the month the industry turned out 2,085,445 heavy-type barrels and drums, 882,438 light-type barrels and drums, and 4,916,823 steel shipping packages, kegs and pails. This compares with 2,175,931 heavy-type barrels and drums, 819,014 light-type barrels and drums, and 4,473,755 steel shipping packages, kegs and pails in December.

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Selenium Supply Outlook Reported Bleak for 1952

Little improvement in the supply of selenium can be expected during the calendar year 1952, members of the selenium producers industry advisory committee told the National Production Authority March 25. So long as there continues to be little possibility of any considerable increase in copper production, which through its electrolytic process determines the amount of selenium available, no increase in selenium can be expected, it was stated.

Committee members were questioned by NPA about the feasibility of obtaining selenium from the refining of lead and zinc. They said these ores contain selenium, but the consensus was that these ores could not at this time be considered as feasible sources.

Sufficient processing capacity is available for handling all selenium coming from copper refining, the committee said, and production of all grades of finished selenium—high purity, commercial, and ferro—could be increased. It was also pointed out that efforts are being made to overcome losses in the processing of selenium.

Leavitt N. Bent Retires As Hercules Vice-Pres.

Leavitt N. Bent, vice-president, member of the executive committee and vice-chairman of the board of directors of Hercules Powder Company, Wilmington, Del., retired last week after forty-five years spent in the chemical industry.

Mr. Bent was a vice-president and member of the executive committee since 1934. He was named vice-chairman of the executive committee in 1939, and appointed vice-chairman of the board of directors in 1950. Mr. Bent served as general manager of one of the company's important chemical departments from 1928 until 1934 when he became vice-president. He was elected a director of the company in 1928.

Uranium Discovered in Wyoming

Discovery of potentially significant deposits of uranium in Wyoming have been announced by Secretary of the Interior Oscar L. Chapman. The deposits are in the Pumpkin Buttes area of the Powder River Basin in northeastern Wyoming. This is an arid and sparsely populated area. Geologists of the Geological Survey made the discovery on October 15, 1951, while conducting investigations on behalf of the United States Atomic Energy Commission.

Cyanamid Co. Consolidates Leather Chemicals Service

Application and customer service facilities for leather chemicals will be established in its consolidated office and warehouse building at Chicago, it was announced March 28 by the industrial chemicals division of American Cyanamid Company, New York. This is part of a new overall plan by which the company hopes to improve its service to customers in the leather field.

Frank A. Edmonds has been named to head the new laboratory, and will assume his new position on May 1st. In conjunction with this move, the Company will discontinue the operation of leather chemicals application facilities at its Stamford, Conn., laboratories. These laboratories, however, will make available to the firm's new Chicago facilities results of basic research that may be applicable to the leather industry.

DuPont Assigns Foulger

Dr. John H. Foulger, director of the Haskell laboratory of industrial toxicology, has been appointed director of medical research in the employe relations department of E. I. duPont de Nemours & Co., Wilmington, Del. This is a newly-created position. Dr. John A. Zapp, jr., assistant director of Haskell laboratory, has been promoted to succeed Dr. Foulger as director.

Trade Briefs

United States Chamber of Commerce has established May 18 to 24 as World Trade Week.

L. C. McKessen, vice-president in charge of sales of the Ansul Chemical Company, Marinette, Wis., has been elected president of the Fire Equipment Manufacturers' Association.

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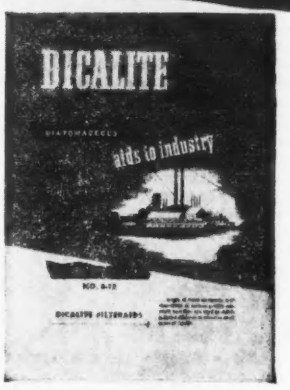

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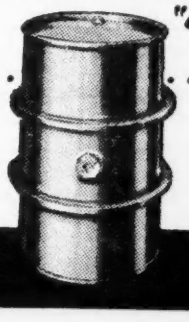

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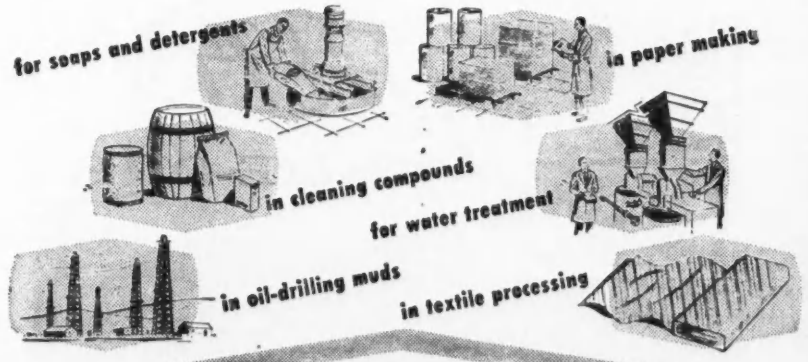

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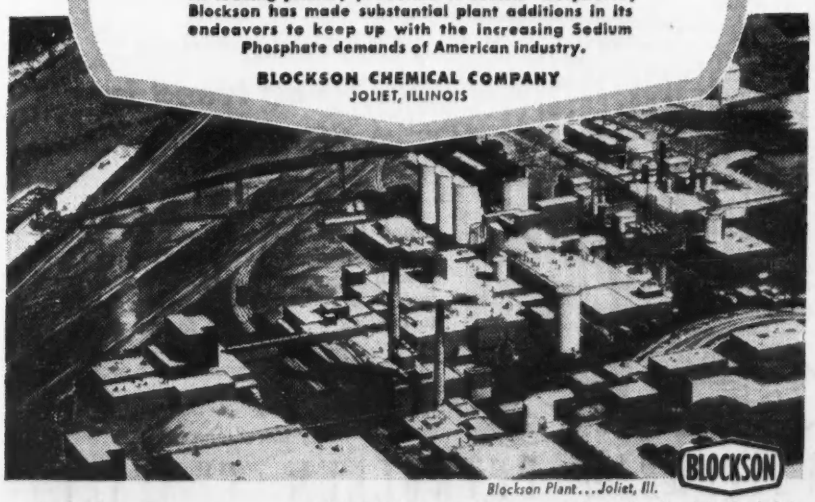

Blockson Plant...Joliet, Ill.

- Sodium Tripolyphosphate
- Tetrasodium Pyrophosphate, Anhydrous
- Sodium Polyphos (Sodium Hexametaphosphate) (Sodium Tetraphosphate)
- Trisodium Phosphate, Crystalline
- Chlorinated Trisodium Phosphate
- Trisodium Phosphate, Monohydrate
- Disodium Phosphate, Anhydrous
- Disodium Phosphate, Crystalline
- Monosodium Phosphate, Anhydrous
- Monosodium Phosphate, Monohydrate
- Sodium Acid Pyrophosphate
- Sodium Silicofluoride
- Sodium Fluoride
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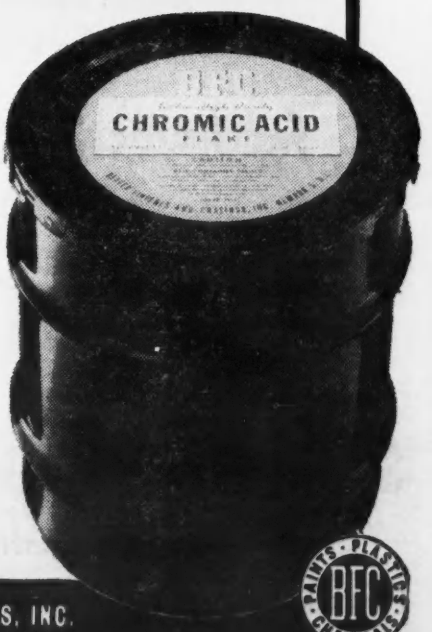

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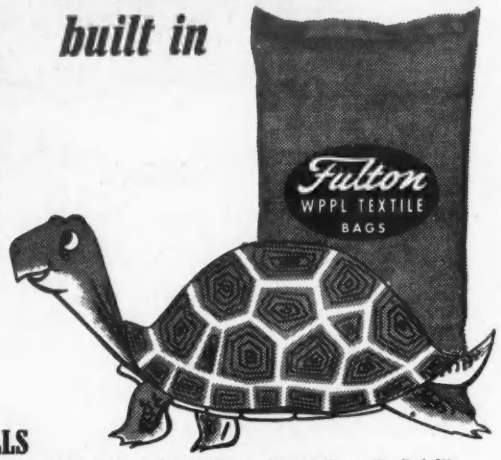

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Monsanto Twin Cities Office Set Up; Hibbeler in Charge

Monsanto Chemical Company has established a Twin Cities sales office for the Minneapolis-St. Paul territory in the Foshay Tower building at Minneapolis, it has been announced.

Arthur A. Hibbeler, assistant branch manager for Monsanto's organic chemicals division, will be in charge of the new office, a branch of the company's Chicago district office. Francis E. Woodill will be assistant branch manager for the plastics division. Other members of the Twin Cities sales staff will be William H. Brauer and Sydney A. Hanks, representing the organic chemicals division and Merrimac division, respectively.

Wyandotte Appoints Craig To Cincinnati Sales Post

John L. Craig has been appointed sales representative, assigned to the Cincinnati office, according to an announcement by H. F. Roderick, general manager of the Michigan Alkali division of Wyandotte Chemicals Corporation.

Mr. Craig joined the Wyandotte market development department in 1949. As a technical field representative, he was responsible for the technological development of the many new organics produced there over the last few years. Prior to joining Wyandotte, Mr. Craig was associated with E. I. duPont de Nemours & Co., working on coated fabrics and finishes.

N.Y. to Require Warning Labels On Carbon Tetrachloride Bottles

The New York City Board of Health has directed Jerome Trichter, assistant health commissioner, to draw up an amendment to the city's sanitary code requiring that containers of cleaning fluid containing carbon tetrachloride bear specific warning labels. There were twelve known deaths last year in the city caused by improper use of such fluids, Mr. Trichter said, and "undoubtedly many more fatal cases of carbon tetrachloride poisoning which did not come to the attention of the Department of Health."

The board's order was in response to a request by Mr. Trichter. He also said that the department will step up its efforts to warn the public of the dangers of carbon tetrachloride poisoning.

New York ACS Sponsors Air Pollution Panel April 4

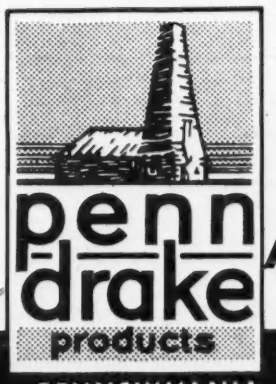
The New York section of the American Chemical Society, in conjunction with the Technical Societies Councils of New York and New Jersey, will sponsor a panel on air pollution April 4 at 8 p.m. at the Statler hotel, New York. Following are the papers to be presented:—

"Evaluation of the Air Pollution Problem in Metropolitan New York and New Jersey Areas," Joseph McCabe, associate editor, *Power*; "Air Pollution and the Citizen," Mrs. Lyonel Robinson, vice-president, New York Federation of Women's Clubs, and chairman, committee for smoke control; "Human Health and Air Pollution," Dr. John Phair, professor of preventive medicine, University of Cincinnati, and "Methods of Air Pollution Study and Control," Dr. Louis McCabe, chief, fuels and explosives division, Bureau of Mines, and director of air pollution control district, Los Angeles County, Calif.

Foote Adds 5 to Research

Dr. S. C. Ogburn, jr., vice-president in charge of research and development of the Foote Mineral Company, Philadelphia, has announced the following additions to his staff:—

Dr. William D. Jones, senior research chemist, formerly with Battelle Memorial Institute; Richard G. Flinn, junior metallurgical engineer, formerly with Diston and Sons; Thomas W. Iszard, junior chemical engineer, recently with Dasher Rubber & Chemical Company; Howard C. Daly, chemist, from the graduate school of the University of New Hampshire, and Lawrence D. Zerone, junior chemical engineer, a recent graduate of Villanova College.



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Petroleum Derivatives

According to observers, there was some pick up in business activities in the petroleum derivatives market during the past week. A greater demand was reported for xylol and all the toluol that could be produced was readily sold to both industry and the government. The aliphatics enjoyed a comfortable balance between the available supply and the consumers' demands. There continued to be a steady call for the higher boilers and all requirements were met with ease. The intermediate aromatic solvents also met with a good deal of interest on the part of users, whose needs were readily met. Price quotations for all these materials remained steady. Supplies of butane gas were quite large as buying interest lagged a bit. The demand for propane has abated with the arrival of spring and it was expected to continue easy until next fall when preparations for the heating season again begin.

Some improvement was reported in the demand for waxes in the past week. There has been an increase in the government demands for microcrystalline wax. Production of these materials continued to be adequate to make for easy fulfillment of all orders at unchanged prices. No change occurred in the petrolatums and white mineral oils. A comfortable supply existed and buying interest was good.

Solvents and Diluents

Producers reported some increase in the demand for xylol during the past week. There were ample stocks of the material to cover all inquiries at unchanged price levels. While toluol was no longer as tight as it had been, observers reported that there was no surplus. All that was available was readily consumed by both industry and government stockpiles. For the present the balance between the output and the demand was considered comfortable, but an increase in demand within the next few months was expected and it was felt that the material might very well grow tighter again. No change occurred in the market situation of intermediate aromatic solvents. All were in good demand and stocks were comfortable. Prices held unchanged. The higher boilers also enjoyed a steady demand and producers were able to cover all requirements without difficulty.

Cleaners' Naphtha—This market continued unchanged throughout the past week. Stocks were adequate to cover the needs of consumers and the output was maintained at a steady rate. The demand was reported to be quite good and prices held at an unchange level.

Lacquer Diluent—The demand for this material has been much improved with the arrival of spring and producers felt that the situation would continue throughout the warm weather. There was a comfortable supply available to cover all orders at prices which were steady.

Mineral Spirits—A good balance existed between the available stocks of producers and the demand from consumers, according to observers. Trading was considered normal and price quotations showed stability.

Rubber Solvent—There was a steady call for this material from customary users and producers were able to meet all inquiries without any difficulty. The output of new material was accomplished without a hitch and no change occurred in the pricing schedule.

Stoddard Solvent—No change occurred in this market during the past week. There continued to be a plentiful supply available with production keeping up at a good rate. The call for material on the part of consumers remained good and market quotations were steady.

V. M. & P. Naphtha—Paint manufacturers continued to display a good deal of interest in this material as they prepared for their active season. Producers were comfortably situated as far as supplies went and all orders could be met with ease. There was no change in the price of the article.

Market Trends

Prices Advanced
None

Prices Reduced
None

(For Current Prices see Page 9)

Lighter Fractions

LPG's—Now that the weather has become warmer, it was reported that the demand for propane and butane has lessened to the extent that these gases were no longer in a tight position. Butane was particularly plentiful. It was reported, as well, that resellers were waiting until April to make any real purchases, since their purchases from April to September help them build up credit for buying during the heating season, when the gases again become tight. Thus, some pick up of buying interest may be expected after the end of the month. According to observers, with the rather mild weather in the Eastern part of the country this past winter, there did not develop the serious shortage of propane that has been experienced in previous years.

Waxes

Microcrystalline—There has been no appreciable change in the market situation of this wax. A plentiful supply was readily offered by producers at unchanged prices. Buying interest was moderately good for domestic use, but the export trade continued very light. The Government has begun to take increased interest in this material for application in defense preparations.

Miscellaneous

Crude Oil—It was reported that, for the week ending March 15, there was a decrease in crude oil production. The American Petroleum Institute indicated that the daily average output of crude, including lease condensate, amounted to 6,404,000 barrels, which was some 16,000 barrels less than was produced the previous week. Average crude runs to still dropped 42,000 barrels to an average of 6,693,000 barrels per day. They were, however, 311,000 barrels above the level of the comparable week in 1951.

Natural Gas—Preliminary statistics of marketed production during 1951 indicated that the entire country produced 7,415,600,000,000 cubic feet of gas. This was an increase of 18 percent over the production in 1950. During the fourth quarter of 1951, marketed production was the highest of the year. It totaled 1,991,700,000,000 cubic feet.

Natural Gasoline—Daily average production of gasoline and allied products decreased 4,000 barrels in January 1952 as compared with the output in December, 1951. Total production for the month amounted to 19,035,000 barrels, including 9,062,000 barrels of LP-gases and 7,010,000 barrels of natural gasoline. Stocks decreased 290,000 barrels during the month. This included a reduction of 269,000 barrels at plants and terminals and 21,000 barrels at refineries. Total stocks at the end of the month stood at 5,275,000 barrels at plants and terminals and 2,621,000 barrels at refineries.

Petrolatum — This market continued without special feature. There was a plentiful supply of material available at steady prices. A rather good interest was reported and all requirements could be met with ease.

White Mineral Oils—According to manufacturers of these oils, production has been well-maintained, thus making for a comfortable supply situation. A good volume of sales was reported and prices for all grades remained unchanged.

Los Angeles Petroleum Market

Demand for solvents and diluents has been maintained at a good rate with producers reporting adequate stocks to meet the present level of requirement. The price structure was again unchanged over previous weeks with cleaning solvent, including Stoddard, listed 15.7c. to 19.7c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles Basin area. Lacquer diluent quoted 16.7c. to 20.7c. per gallon, same basis.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended March 15 totaled 253,111,000 barrels, according to data reported to the Bureau of Mines, United States Department of the Interior. Compared with the total of 252,826,000 barrels for the preceding week, this represents an increase of 285,000 barrels comprising an increase of 315,000 barrels in stocks of domestic crude and a decrease of 30,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

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Agricultural Chemicals

Packing-house byproducts declined in price last week. Withdrawal of support by the stockfeed trade was the principal factor in bringing about the downward revision with a slowdown in fertilizer demand a secondary influence. Steamed bone meal, hoof meal and tankage were all priced lower. Dried blood was unchanged in price but quiet and easy. No unusual activity was noted in fish meal. Menhaden remained in definitely short supply for spot shipment but there appeared to be no particular shortage of imported fish meals. Inquiry for castor pomace was active and will probably continue so until there is some loosening up in the supply of nitrogenous process tankage.

Increased demand for contract shipments of superphosphate brought the supply situation exceedingly tight and a similar condition prevailed in ammonium nitrate and sulphate. It is becoming more apparent that an international shortage has developed in all solid nitrogen chemicals. No sodium nitrate shipments have been made from Chile for two weeks on account of a labor strike at the nitrate plants. Domestic suppliers of Chilean nitrate have covered their March program but how long stocks will hold out depends upon the duration of the strike. Contract withdrawals of domestic potash have increased with an unusually heavy demand for muriate high grade granular. Pulverized cyanamide is being offered in limited quantities for seasonal requirements.

Fertilizer Materials

Ammonium Nitrate — Supply position tight, with demand mounting to seasonal heights as the year advances. No nearby easement in sight.

Ammonium Sulphate—Indications point to a tight market over the season and beyond. Production is moving rapidly into consuming channels, and it is stated there are no stock accumulations. Export inquiry is increasing. Aside from recent inquiries from Formosa and Korea, the Philippine Republic has now entered the market.

The Montecatini nitrogenous-fertilizer plant at Novara, Italy, is being expanded. Its annual capacity of 8,000 metric tons (N) will be increased to 30,000 tons. Methane gas is the raw material.

Bone Meal—Relaxation of feed demand was reflected in a lower market for the steamed grade. There were sellers at $82.50 per ton, carlots, works. The raw variety was unchanged at $75 per ton.

Castor Pomace—Inquiry was active and will likely remain so as long as the stringency in nitrogenous process tankage continues. Producers of pomace were not in a position to offer last week.

Cyanamide—Limited quantities of the pulverized grade are now available for seasonal requirements at $3.40 per unit of nitrogen, in paper bags, f.o.b. Canadian works.

Dried Blood — Market situation quiet last week. Sellers named former prices but the tone was rather easy. At New York $7.50 per unit of ammonia was quoted and at Chicago $7.

Fish Meal—Menhaden fishing operations are expected to start late in April, weather conditions permitting. There was a definite scarcity of spot menhaden stocks but imported meal was available on the unit basis of protein $2.26.

Hoof Meal—Priced lower at $7 per unit of ammonia, Chicago basis. Buying interest continued slow throughout the week.

Phosphate Rock — Domestic contract shipments remained steady. Declining tendency of ocean freight rates appeared to bring out more export demand. Inquiries were in the market from North Europe, Italy and South America during the past week.

Potassium Muriate—Demand for domestic contract shipments has increased and the overall movement held a satisfactory seasonal normal average. The call for high grade granular in bags and in bulk has been unusually heavy with shipments running slightly behind schedule. The American Potash Institute states that in the fourth quarter of 1951, deliveries totaled 622,131 tons of salts containing an equivalent of 356,036 tons K_2O, a decrease of 13 percent compared to K_2O deliveries during the same period in 1950. In addition to the regularly reported deliveries on the quarter basis, information from governmental and other sources indicate that during the second half of 1951 there was additional importations into the United States of approximately 153,414 tons K_2O as muriate of potash, and 13,477 tons K_2O as sulphate of potash.

Sodium Nitrate—More activity has developed in this market and domestic producers reported more demand than supply. A labor strike at nitrate plants in Chile has prevented shipments from supply points for the past two weeks. Domestic suppliers of Chilean nitrate have complied with their March program but how much longer they can maintain stocks depends on the duration of the strike. The incident has attracted considerable interest in the market situation.

Superphosphate—Supply position definitely tight under a steadily increasing demand. It was stated that many users are endeavoring to expand commitments but the heavily sold condition of output has prevented producers from taking on additional quantities. Prices are firm at the former range with stocks getting shorter with each successive week.

Tankage—Prices have continued to decline, with sales at $6.75 per unit of ammonia. The current market is now on a parity with the lowest price recorded in 1951, August. Chicago dropped from $8 to $7.50. The feed trade showed relatively little interest at prices named.

Market Trends

Prices Advanced

None

Prices Reduced

Bone meal, steamed, $2.50 per ton.
Hoof meal, 25c. per unit of ammonia.
Tankage, 50c. per unit of ammonia.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
92.5	92.5	92.5	82.2	87.1

(For Current Prices see Page 9)

Los Angeles Market

Los Angeles.—The market for organic materials remained soft during the week with trading only light to moderate. Blood meal was again lower although other materials remained relatively firm. Shipments of Canadian inorganic materials, particularly ammonium nitrate, were running behind schedule due to weather conditions. Other than imported tuna meal, quoted $2.25 per unit of protein, f.o.b. dock, all fish meals continued in tight supply.

Ruling prices were:—Ammonium nitrate—$81.89 per ton, domestic, f.o.b. Los Angeles, $83.02 per ton for Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$72.86 per ton in bags, 16-20 grade, f.o.b. Los Angeles, $97.51 per ton in bags, 11/48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$54.87 per ton in bags, f.o.b. Los Angeles. $3 less in bulk. Canadian material same

Blood meal—$5.75-$6 per unit of ammonia at source. Bone meal—$83-$85 per ton, imported 1-65 meal, c.i.f., Los Angeles Harbor.

Calcium nitrate—$51 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Fish meals—$146.90 per ton nominal for 65 percent sardine, bulk, f.o.b. San Francisco or Los Angeles. $138.60 per ton, 60 percent tuna, including sacks, f.o.b. San Pedro. $2.25 per unit of protein for imported meal, including sacks, f.o.b. dock.

Potassium muriate—50½c. per unit in bulk, f.o.b. Trona. Potassium sulphate—95 to 98 percent K_2SO_4, 86c. per unit, f.o.b. Trona.

Sodium nitrate—$58.50 per ton in 100-pound bags, f.o.b Los Angeles. $53.50 per ton in bulk.

Pesticides

Department of Agriculture states that, barring unusual pest infestations, the overall supply of pesticides should be adequate during the 1952 season, although possible shortages may develop in some kinds, including those based with benzol, chlorine, copper and sulphur. The present situation in BHC is relatively quiet. A sizable quantity of 3-5-40 was purchased when the price broke earlier in the year, and this cotton dust is still subjected to competitive influences. The technical variety of BHC was generally priced at 1½c. per gammic unit, but was not thoroughly stabilized at this level. DDT was firm at 48c to 50c. per pound, with some available, but most production committed to contract consumers. It looked as though an increased demand will develop for methoxychlor for stored grain treatment. Production of the weed control chemicals is being stepped up, with demand increasing and expected to increase more when the snow gets off the ground. Both 2.4-D and 2.4.5-T remained steady, with stocks not excessive and a tendency to tighten as the season progresses.

For Late Market Developments, See Page 4

Thurston Chemical Names Gillie General Sales Mgr.

James H. Gillie has been appointed general sales manager for Thurston Chemical Company of Joplin, Mo., and George Cupples has been named as director of promotion. At the same time, Perry Onstot was named as agronomist and William Schaeffer as advertising manager.

Mr. Gillie joined Thurston Chemical in 1947. He has held positions in both the sales and advertising departments. For the past three years he has served as director of the agriculture information department and has been active in working with the state agricultural colleges and farm leaders throughout the midwest.

Mr. Cupples joined the company in 1945 as a member of the sales force, serving for a time as divisional sales manager for Missouri and Kansas. He also served as director of the sales research department and for the past two years has been engaged in public relations and promotional work. Mr. Onstot joined the company March 1. Mr. Schaeffer joined Thurston Chemical in 1948.

NPA Cites Need for New Methods to Conserve Sulphur

The necessity for developing and expanding sulphur conserving methods for the production of superphosphate fertilizer materials was emphasized March 25 by the National Production Authority at a meeting with the phosphatic fertilizers industry advisory committee.

NPA pointed out that the Department of Agriculture's estimated requirements for superphosphate by 1955 is 3,485,000 tons or almost 75 percent more than the approximate 2,000,000 tons which it is expected will be produced this year under the sulphur use limitations of NPA's sulphur order M-69.

Representatives of the Tennessee Valley Authority and the Department of Agriculture outlined methods of producing superphosphate by treating phosphate rock with nitric acid in order to conserve suplies of sulphuric acid. Various methods used commercially in Europe and Asia for the production of superphosphate were also reviewed.

Sulphur Project in Quebec

Sulphur Converting Corporation, a concern backed by European and Canadian capital, has announced plans to build a $5,000,000 sulphur plant at Roberval, Quebec, 200 miles northeast of Quebec City in the Lake St. John district. The company has bought the land for the plant and plans have been made for mining pyrite in the Chibougramau region. The sulphur will be produced from pyrite by a special process, it was stated. Construction of the plant is scheduled to start in May.

Pennsalt Offers Service Bulletin on Insect Control

A new service bulletin entitled, "Insect Control on Crops, Shrubs, and Trees with Lindane," has been prepared by the Pennsylvania Salt Manufacturing Company's agricultural chemicals department. The bulletin lists in chart form the host plant, insects which may be controlled with lindane, the recommended concentrations and suggestions for application. The instructions include formulations containing 1 percent, 20 percent and 25 percent lindane, which is a highly purified form of benzene hexachloride containing at least 99 percent of the active gamma isomer.

Information is also given on seed treatment for wireworm control with a wettable powder containing 25 percent lindane, and on the possible use of lindane in transplanting or setting water, for cabbage maggot and tobacco wireworm control. A copy of the bulletin may be obtained by writing to Pennsalt Chemicals, agricultural chemicals department, 1000 Widener Bldg., Philadelphia 7.

Int'l Minerals & Chemical Names 4 in Plant Food Div.

The plant food division of International Minerals & Chemical Corporation, Chicago, has announced four appointments in that division.

E. Meade Wilson has been named an area manager at Mulberry, Fla., with full responsibility for division operations in that area. D. N. Barksdale will act as assistant to Mr. Wilson, particularly with respect to plant operations and the supervision of credits. W. P. Burke has been appointed district sales manager at Albany, Ga. S. Ralph Smith, sales representative at East Point, Ga., succeeds Mr. Burke as area credit manager.

Philippines Seek Pesticides

The Philippine Council for United States has issued invitations to bid on agricultural pesticides, under Mutual Security Agency purchase authorization 92-236-00-305-2016 which is limited in value to $25,000. Sealed bids will be received at the procurement office of the council in room 502, Department of Finance Building, Manila, P. I., in quintuplicate, until 10 a.m., April 22 (Manila time), and then publicly opened. Bids by US suppliers must be submitted through their Philippine agents. No bids from foreign suppliers submitted directly will be considered. Details are contained in MSA small business circular No. 138.

Potash Co. Shifts Woods

Potash Company of America has announced the transfer of G. Albert Woods, sales respresentative in North and South Carolina, from his current headquarters in Raleigh, N. C., to the concern's general sales office in Washington, D. C. Effective April 1, the Raleigh office is being closed. Working out of the Washington office, Mr. Woods will continue ot be in charge of the Carolina-Virginia territory, but also, from time to time, will assist the company in servicing accounts other than those in his immediate territory.

Trade Briefs

Scott Paper Company, Chester, Pa., has elected Stanley Resor a director.

Robert Gair Company has appointed Harry Rust division manager of its plant at Bogota, N. J.

Unexcelled Chemical Corporation has named Arthur Feigenbaum assistant to the president.

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- Chlorine
- Citric Acid
- Cream of Tartar
- DDT (Dichloro Diphenyl Trichloroethane)
- Fire Extinguisher Fluid
- Parathion
- Potassium Nitrate
- Rochelle Salt
- Silicon Tetrachloride
- Sodium Hydrosulphide
- Sulphur — Insoluble (for rubber compounding and other uses)
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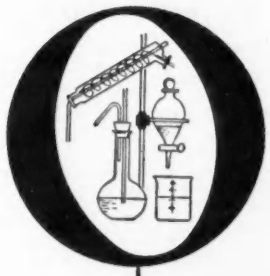

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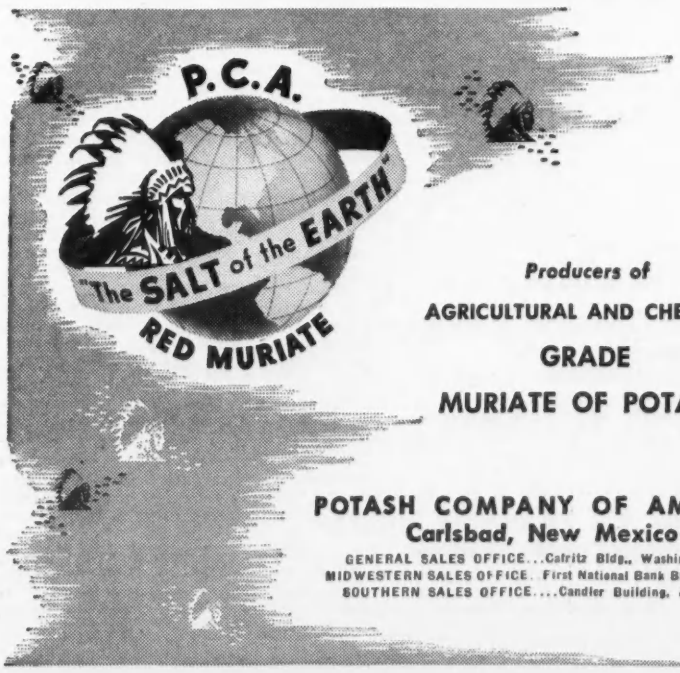

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Coal Chemicals

The price of crude imported naphthalene was reduced another ¼ cent per pound last week. This was the only price change in the coal chemicals market. There were no significant changes in the supply position of the important intermediates or basic products.

Crude domestic naphthalene was still tight. But, there was less pressure on producers for the material. Phthalic anhydride was somewhat tight. However, there continued to be some signs of easing in the phthalic market. Pyridin remained in tight supply. There continued to be quite a bit of activity in all of the tar bases, so much so, that it was understood that the government was considering putting the pyridins under allocation.

There was relatively no change in the markets for benzol, toluol, and xylol. Benzol was fairly short, toluol was just about balanced, and xylol was also balanced. However, some producers said that they were short of the light oils.

The coaltar acids, phenol, cresylic acid, and the cresols, continued to ease. Producers expected the acids to stay long for a while.

With the threat of a strike still a possibility next week, the steel industry kept production in high gear last week. The American Iron and Steel Institute announced that the estimated operating rate for the week ending March 29, was 102.6 percent of theoretical capacity. Last week was the fourth consecutive week of record weekly production by the steel industry.

The 102.6 percent production rate was equivalent to 2,131,000 tons of ingots and castings, an increase of 4,000 tons over the previous record week, the week ending March 22, when production was estimated at 2,127,000 tons.

Comparing last week's output with past performance, the Institute indicated that production during the comparable week one month ago was 2,096,000 tons, and one year ago 2,069,000 tons.

Basic Products

Benzol—There was no change in the supply position of the benzol market last week. This basic coal chemical was in relatively short supply. Producers had little trouble in keeping all of their production moving. The overall demand was great enough to prevent any of the producers from building up inventories.

Little change in the general picture of this market was anticipated by suppliers during the first half of this year. Gradually increased production and slightly reduced demands have improved the supply status of benzol since the critical days of last year. However, producers did not feel that there would be any drastic change in the benzol market until the production of new facilities is available.

Creosote — Producers of creosote said that supplies were running approximately parallel with consumer requests for the material. No one expected much in the way of a change, either pricewise or in supply position during the next month. Some producers felt that there might be a little pick up in a couple of months when railroad traffic picks up. It was said that the railroads tend to coat more ties when business is good, and less when business is bad, and they feel that some clipping of expenditures is necessary.

Cresols—There was further easing in this market last week. Producers said that they had ample supplies to give prompt delivery to all orders which they were able to obtain. It took a lot more selling on the part of the suppliers than it has for several years to keep the material moving.

Prices have held firm in this continuously softening market. There has been nothing to indicate to producers that the market will not continue in its softer trend. Most suppliers feel that the cresols would remain in a long supply position for quite a while. The easier supply of cresols was largely the result of reduced demands for cresylic resins and plasticizers.

Cresylic Acid—This market continued to show signs of easing last week. Producers said that there was ample material to supply the needs of consumers. Producers of the domestic acid had to get out and really sell cresylic, in order to keep it moving.

ADF cresylic acid remained steady, pricewise, last week. Importers continued to quote prices within the range of $1.20 to $1.30. It was felt that the price would continue in its steady course for a few weeks, at least. Foreign suppliers resisted any further decrease of ADF acid, since they were of the opinion that they could not sell more acid at lowered prices.

It was said that consumers of imported cresylic could, and did, obtain all of the material they needed, not a gallon more. One importer expressed the feeling that no more cresylic could be sold at lower prices because consumers would not need any more material at low prices than they needed at present prices.

Some importers have made a firm resolution that they will not get caught with their warehouses bulging with ADF acid in future years when cresylic prices fluctuate. The price of this imported acid has had the habit of giving the impression of an upturn, and, just as soon as importers bought large quantities of high-priced material, the market suddenly turned downward, leaving the importers with substantial inventories on their hands. Unfortunately, they were then forced to spend considerable sales time on a market in which there was little activity, since they would lose more money at each price decline if they did not cut their inventories down. One importer described it as nursing a dying horse.

Naphthalene — The market for crude domestic naphthalene was pictured as tight, with less pressure on producers. There were signs last week, that more of the pressure was coming off. Some producers have been able to work off more of their back orders, phthalic anhydride has been showing some signs of easing a little, and the demand for many naphthalene-derived intermediates has not been too good. The imported market for hot pressed has demonstrated a downward trend.

Imported crude naphthalene dropped another fraction of a cent last week. The downward revision was ¼ of a cent at the lower extremity of the price range and ½ cent at the higher limit. Importers' current quotations for the 78 degree material ranged from 7¼c. per pound to 8c. per pound.

Phenol—Producers said that there was further easing in this market last week. There were ample supplies to meet consumer needs. The easier supply position of phenol has been characteristic of all of the coaltar acids over recent months. Producers reported that they have had to get out and sell the acids, more so than they have had to do for several years.

Phenol was not expected to show any significant change in its supply position during the next few weeks, although it was expected to continue easing. The easier market was the result of fewer calls from manufacturers of intermediates and phenolic resins. No pick up was anticipated in this market until phenolic resins and adhesives show a little more activity.

Pyridin—The market for 2 degree pyridin was tight last week. There was no expectation of a change in the supply position of this tar base. The multitude of end uses for 2 degree pyridin have sus-

Market Trends

Prices Advanced

None

Prices Reduced

Naphthalene, crude, imp., ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
137.0	137.0	137.0	107.5	134.9

(*For Current Prices see Page 9*)

Coal Chemicals

Total estimate of chemical recovery cokeoven operations in the week ended March 29, indicate the following output of chemicals from that source:—

Ammonia liquid, NH_3	lbs.	985,126
Ammonia sulphate	lbs.	35,447,466
Benzol	gals.	3,516,275
Coaltar	gals.	15,801,532
Creosote oil	gals.	654,853
Naphthenate, crude	lbs.	2,519,760
Pyridin, refined	lbs.	29,895
Toluol	gals.	689,019
Xylol	gals.	185,067

For Late Market Developments, See Page 4

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KOPPERS COAL CHEMICALS

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tained the demand at a level above the available supply.

It has been said that the government has been considering putting all of the tar bases under allocation. Some directives were expected for pyridins in April. All of the pyridin bases have enjoyed quite a bit of activity since the announcement of isonicotinic hydrazide as a TB drug and the subsequent search for a source of gammapicoline or a suitable pyridin as a substitute. Some exporters of tar bases were concerned that the pyridins might go under allocation. It was felt that government control of the tar bases would virtually eliminate the export market.

Toluol—Most producers reported that the toluol market was just about in balance between supply and demand. Production was moving out of the plants just as soon as it was being made. Industrial demand, especially for the use of toluol as a solvent in the paint industry, has not been too good. Hence, this chemical, which was quite short a few months ago, has come up to a supply position in which industrial and defense requirements can be satisfied simultaneously without government control of allocation.

The easier supply position of toluol, coupled with the outlook that demand is not going to pick up immediately, have led many producers to feel that there won't be any government control or allocation for the next month, or so. Furthermore, there seems to be less need for directives since the government arsenals are reported to have just about all of the toluol they require for nitration, for the time being.

Some producers were exporting all of the toluol which they couldn't sell on the American market, which was an indication that toluol was not as short as it had been. A few said that they would have more than ample material if the export market dried up.

Xylol—There was little change in this market last week. Most producers reported that their supplies of this material were pretty well balanced with the calls for it. A few suppliers said that they found xylol a little tight, they being unable to keep up with their orders.

It was said that the solvent use of xylol has not been as great as it might be. But, little was anticipated, for a while, from this direction which would change the supply status of xylol. Another factor which would make this market a little tighter if it had developed to the expected proportions for this year, was the solvent use of xylol in insecticide output. It was said that manufacturers of insecticides have not significantly increased their call for xylol yet.

Intermediates

Alphapicoline—The demand was reported to be good for this tar base, as it was with all of the tar bases. Producers said that they were moving all of their production without too much effort. Prices have been steady in this market. The current quotation of producers was 39½ cents per pound for returnable drums in carlots on a freight equalized basis, and 40 cents per pound for less than carlots, on the same basis.

Anilin—Producers reported that there was a good demand for anilin and the material was moving fairly well. The market was found to be in a pretty good balance between supply and demand last week. Prices held firm at their old levels. Little change was anticipated in the next few weeks.

Anthraquinone—A major producer reported that the supplies of this intermediate were adequate for the first time in a long while. The improved supply position of anthraquinone, which has just recently emerged from the list of tight chemicals, was said to be due to the drop in demand for vat dyes. It has only been the long-endured textile slump which has eased up the supply situation for this dyestuff intermediate.

The week before last, DPA announced an anthraquinone vat dyes' production goal of 48,000,000 pounds capacity by January 1, 1953. This would be an increase of 11,000,000 pounds over the output for last year. It was said that the need for additional production would be felt when the textile industry starts its climb out of the slump.

Current producer quotations were within a price range of 85 cents to 88 cents per pound for 99.5 percent material, in barrels, on a freight allowed basis.

Gammapicoline — The market for this picoline continued to be a very strong one. Producers found that demand was far in excess of their capacities for production. Inquiries were still coming in for gammapicoline. Since the potential consumers of gamma have found out that there was not a great quantity available for the manufacture of isonicotinic derivatives now

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used in TB work, they have searched the field to examine the possibilities for separation of gammapicoline from the other pyridins, or the substitution of another pyridin for gamma in the process.

The subsequent result from all of this activity in the pyridins markets has been the speculation that government allocations of the tar bases was soon to come.

Mercaptobenzothiazole — Supplies were said to be adequate to take care of the immediate needs of consumers. Producers have had to get out and sell the rubber chemicals lately. The national rubber stockpile is now in pretty good shape, therefore there has been less call for this rubber accelerator.

Prices have held firm at previous levels. Current producer quotations were 34c. per pound for bags or fiber drums in ton lots, and 36c. per pound in less than ton lots, both on a freight allowed basis.

Mercaptobenzylthiazyldisulphide — Producers reported that there was enough material available for prompt deliveries. As with other rubber chemicals, this accelerator could be kept moving only with increased sales effort.

Current quotations by producers were 42c. per pound in ton lots for bags or fiber drums, and 44c. per pound in less than ton lots, both on a works basis.

Phthalic Anhydride—There continued to be some lessening of the pressure on phthalic, although the chemical was still considered to be in fairly tight supply. A good deal of the responsibility of the easier market for this intermediate was placed with the improvement of the supply position of naphthalene. In addition, demand for alkyd resins, plasticizers and other intermediate uses of phthalic has not been up to former levels.

Although most producers were able to find orders for all of their phthalic output, more and more consumers reported that they have been able to get enough material to meet their immediate needs. The fact that this anhydride was reaching more outlets, indicated that there was a softer tone to the market. There were still many consumers around who could use a lot more phthalic than they were able to procure. Producers felt that it was too soon to predict whether or not the market will be in a balanced supply position by the time the summer months roll around.

Styrene—The current condition of the market for the monomer was fairly well balanced with respect to output and orders. However, producers felt that there was some possibility of a slightly softer market next month. Incoming orders were not up to the volume of last month.

Nat'l Aniline Issues Coloring Data

The technical service division of National Aniline Division of Allied Chemical & Dye Corporation has issued a twenty-four-page booklet on "The Coloring of Post-War Synthetic Fibers." Described are the chemical and physical natures of the new acrylic and terephthalic fibers in relations to nylon. Dyeing technics suitable for various fibers are given in detail with precautionary measures to be observed in processing these new products. Copies of the booklet may be obtained by writing National Aniline at 40 Rector street, New York 6, or any of its branch offices.

Schnell Joins Consolidated Products

William A. Schnell, sales engineer for forty years with Link Belt Company, has joined the sales staff of Consolidated Products Company, New York.

Pitts. Coke Names Three To Neville Island Positions

The promotion of three men to key positions at the Neville Island plant of the Pittsburgh Coke & Chemical Company, Pittsburgh, has been announced by Mr. G. E. Dignan, vice-president in charge of operations.

George W. Walter has been named general superintendent of chemical operations, C. R. Sizemore has been advanced to manager of basic operations, and John W. Campbell has been promoted to manager of service, maintenance and construction.

Mr. Walter will be responsible for the direction and coordination of the company's various chemical operations. Mr. Sizemore will supervise the coke plant, blast furnace and cement plant, and Mr. Campbell will handle maintenance and construction activities.

China Seeks Dinitrotoluene

The Chinese government is seeking, among other materials, forty-five short tons of dinitrotoluene and forty-four short tons of phenolic molding compound, Mutual Security Agency's office of small business has reported. Bids are being solicited from suppliers in the United States, Belgium-Luxemburg, France and Japan, and must be submitted by April 25 at 1:30 a.m., Taipeh time, to the Central Trust of China, 68 Yen Ping Nan Lu, Taipeh, Taiwan. Details on the materials are contained in MSA's small business circular No. 135.

Trade Briefs

Parfums Marcy has named Irving Goldstone general manager of the concern.

Kenneth C. Towe, president of American Cyanamid Company, has been elected a director of Guaranty Trust Company.

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Textile and Leather Chemicals

Quiet conditions prevailed in textile and leather chemicals last week. Consumers continued to restrict purchases to actual needs, which kept the volume low. Prices were without change, except sulphonated grades of castor oil and tallow as a result of the lower cost of basic materials.

In the chemical group, withdrawals against contracts were moderate and well below the movement a year ago. Supplies were adequate for prompt and spot shipment. Demand for spot delivery also was restricted. Prices, however, were without change and fairly steady, due to the high cost of production.

Users of sizing materials continued to take moderate quantities for immediate needs. Potato starch was scarce and resulted in purchases of sizable lots of Dutch starch for shipment to cover forward requirements. Tapioca flour on spot remained steady, reflecting the scarcity of available stocks for shipment from Brazil. Improved demand was noted for corn starch, while interest in dextrin was still limited.

Cattlehide production increased in January totaling 1,878,000 hides compared with 1,555,000 in December according to Tanners Council. Other skins output also was larger. Calf and whole kip skins amounted to 717,000, against 603,000 in December; goat and kid skins, 2,615,000 against 2,059,000 and sheep and lamb skins, 2,047,000 against 1,894,000.

Weekly average consumption of raw wool on the woolen and worsted systems amounted to 8,000,000 pounds (scoured basis) during January, according to the Bureau of the Census. This was only 1 percent below the December average, but 30 percent below January, 1951. Apparel wool was consumed at an 8 percent lower rate in January than in December, while carpet wool consumption increased 24 percent.

Chemicals

Acetic Anhydride—Market conditions were unchanged, with stocks liberal for prompt delivery at former levels. Buying interest was spotty, chiefly for actual needs.

Bichromates—Withdrawals against contracts were reported in moderate demand, while new business was slow. Market remained steady at current quotations for all grades.

Sodium Hydrosulphite — Supplies were available for prompt and spot shipment. Deliveries against contracts were in fair request, while new business was slow, well below the volume of a year ago. Quotations were without change.

Sulphonated Oils — Business was confined to immediate requirements, lacking volume. Lower cost of castor oil and tallow was reflected in sulphonated grades. Prices of the former were cut 1c. and the latter ½c. Castor 50 percent was quoted at 18c. to 19c. per pound, and 75 percent, 25c. to 26c.; tallow, 25 percent, 7c. to 7½c., and 50 percent, 10c. to 10½c., as to quantity and sellers.

Sizing Materials

Blood Albumin—Limited stocks of blood albumin were held at 70c. to 80c. per pound, according to quantity. Demand continued keen. Dried soluble blood was in better inquiry for Spring requirements. Supplies were adequate to cover current demand. Prices ranged from 17c. to 18½c. per pound, depending upon quantity.

Corn Dextrin—Buying interest continued restricted to actual requirements. Market was unchanged and steady for all grades. Gum was quoted at $8.96 per 100 pounds, paper bags, carlots, New York basis; canary, $8.70; dark, $8.80, and white, $8.54, same basis. Less carlots were 15c. higher.

Corn Starch — Larger quantities were reported moving for prompt delivery, though the volume was smaller than a year ago. Prices were maintained at unchanged levels. Pearl was quoted at $7.15 per 100 pounds, paper bags, carlots, and powder at $7.27, same basis. Less carlots were 15c. per 100 pounds higher. Visible corn supply dropped 1,469,000 bushels to 57,305,000 bushels for the week ended March 22, compared with 65,421,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

Egg Albumen—This market steadied, following recent price declines. Business was still spotty, chiefly for actual needs.

Market Trends

Prices Advanced

None

Prices Reduced

Castor oil, sulphonated, 1c. per lb.
Tallow, sulphonated, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
277.8	277.8	303.8	225.1	317.4

(*For Current Prices see Page 9*)

Flake was unchanged at $1.41 to $1.43 per pound, and refined, $1.45 to $1.47 per pound, according to quantity. Demand for technical was also restricted to small lots. Prices ranged from $1 to $1.08 per pound, as to quantity.

Egg Yolk — Consumers absorbed moderate quantities for actual needs. Prices were without change and fairly steady at $1.14 to $1.16 per pound, depending upon quantity and quality.

Potato Starch—Consuming inquiry has slackened, but the tight supply condition kept the market strong. Supplies of domestic starch were unavailable at mills, and stocks on spot also were limited. Prices were merely nominal at 12½c. per pound, carlots, f.o.b. mills, Maine. Inquiry for foreign starch was less active. Shipments were unchanged and quoted 10¼c. to 10½c. per pound, carlots, duty paid. Domestic starch was held at 10c. to 10½c. per pound on spot, exwarehouse, according to quantity and seller.

Sago Flour—Light stocks on spot were held at former levels. Buying interest was confined to small lots for actual needs. Raw was held at 7.35c. to 7¾c. per pound, on spot as to quantity and refined 9c. to 9¼c. per pound.

Tapioca Flour—Market remained steady, despite light demand. Supplies were well held on spot and for shipment. Old crop flour for shipment was scanty due to sold up production. Offers of new crop were not expected until late April or early May. Quotations were unchanged and steady. Brazilian high grade was quoted at 8½c. to 9c. per pound, exwarehouse, and medium at 8c. to 8¼c. per pound, depending upon quantity and seller.

Tanning Materials

Horse, colt, ass, donkey, mule and pony hides; antelope, deer, elk, moose, caribou, and gazelle skins and hides and sole leather, bends, backs, and sides; boot and shoe cut stock; and sole, welting, and belting leather offal may now be exported to most destinations throughout the world without specific approval, the Office of International Trade has announced. Exports to the U.S.S.R. and its satellites, and to Hong Kong and Macao will continue to require individual export licenses issued by the OIT.

Chestnut Extract—Inquiry was more active, and slight improvement in demand was reported. Prices were unchanged and steady. Supplies were adequate and about normal.

Cutch—On April 1 higher price becomes effective for shipment—8¼c. per pound, exdock, plus duty, as a result of increased ocean freight costs.

Mangrove Bark—Business continued inactive and quotations were unchanged and more or less nominal. South American bark was quoted at $50 to $52 per ton, exdock, and African bark at $80 per ton, same basis.

Myrobalans—Conditions in this market continued quiet. Buying interest continued slow. Shipments were unchanged. J1's were quoted at $52 per ton, exdock. Crushed J1's were available at $76 to $77, same basis.

Quebracho Extract—Primary markets remained firm. Offers for shipments were light and maintained at former levels. Solid ordinary was held at 11 31/65c. per pound, and clarified, 12 3/16c. per pound, carlots, exdock.

National Production Authority amended M-57 March 26 and lifted the restriction limiting the use of quebracho to 60 percent of the base period consumption for oil well drilling.

Valonia—Business was at low ebb. Offers from Turkey were quotably unchanged and fairly steady.

Wattle—There was no improvement in the quiet demand. Primary market was unchanged and steady, despite freer offerings for shipment. Fair average ranged from $105 to $106 per ton, and merchantable at $101.50 to $102.50 per ton, exdock. Extract was quoted at 11¼c. to 11⅜c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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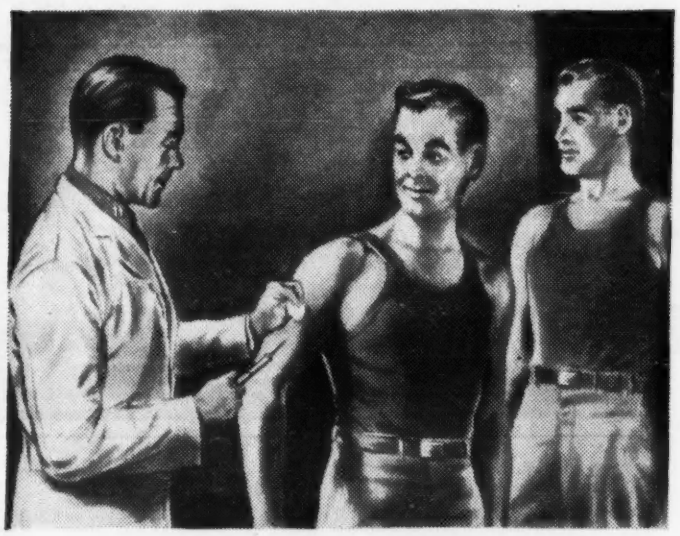

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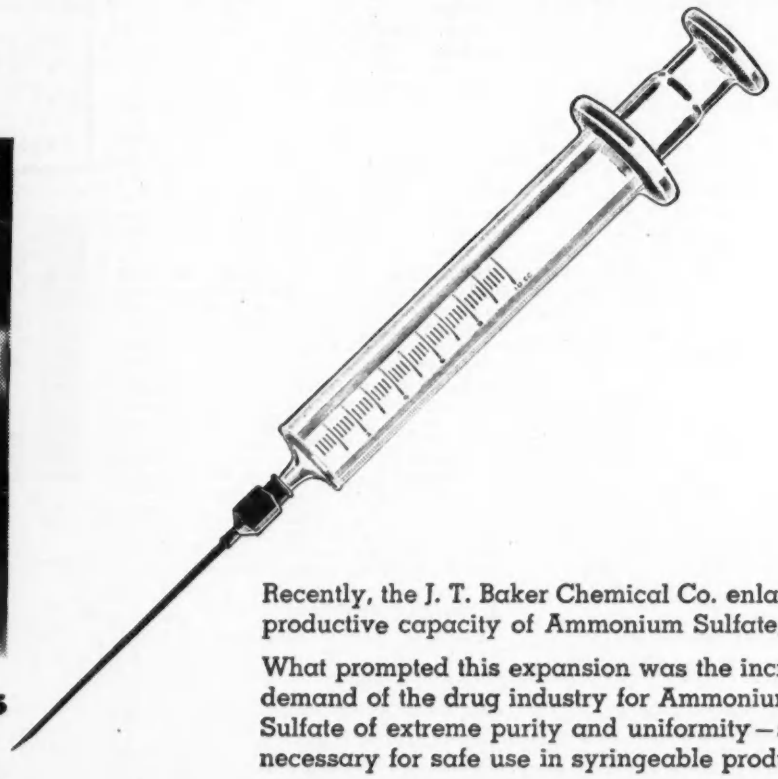

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Following a reduction in the bulk material two weeks previous, streptomycin in unlabeled vials was reduced last week. One gram vials were down 8.4 cents per vial and five gram vials were reduced 44.6 cents per vial. These reductions were an indication of the current market in which supply had finally caught up and began to exceed demand.

In its second reduction this month, castor oil was dropped ¾c. per pound, affecting the refined and deodorzied and USP grades in this market. This latest reduction was an indication of the steadily easing position of castor oil which has been in tight supply due to a short supply of castor beans. The castor bean market has been softening with quotations dropping steadily during the past several weeks. Sorbitol solutions, both commercial and regular, 70 percent, have been reduced as a result of increased sorbitol supplies. The former was down ¼c. per pound and the latter, ½c. per pound, in tanks. Blackstrap molasses was down ½ cent per gallon.

Animal by-products, such as cholesterol and ox gall, were in short supply. The latter in particular was quite short. Other by products such as trypsin and pancreatin were in sporadic demand with supplies adequate. Lanolin continued in short supply. With wool scouring operations at a record low, lanolin refiners were hard pressed to obtain enough wool grease to enable them to process sufficient lanolin to accommodate the demand. Relief was said to be in sight some time this year according to predictions based upon past performance in the textile industry. It was expected that wool stocks would be sufficiently depleted this year to stimulate consumer demand with the resultant increase in wool scouring operations and wool grease available to lanolin producers.

The chlorinated solvents appeared to be in better shape than they have been for some time. Supplies of trichlorethylene and perchlorethylene were approximately in balance with demand although the chlorine shortage itself is far from overcome. A somewhat diminished demand has made current supplies of the chlorinated solvents go further. The ester solvents, both fermentation and synthetic, were all in good supply with demand fair. The ketonic solvents such as methylethylketone and methylisobutylketone were in good demand according to reports with supplies adequate. With very few exceptions, shortages in fine chemicals have ceased to exist and the major problem of producers has been to sell what they make.

Acetophenetidin — Demand for this material was at good levels although off from that of last year. Some producers reported a better demand than others, it was observed. Supplies were approximately in balance with inquiry.

Alcohol—Demand for industrial alcohol was reported to be fair. Supplies of both natural and synthetic were more than adequate for current inquiry. Negotiations for the new Cuban blackstrap crop were still under discussion. Fermentation producers have declared that they would not go any higher than 16c. per gallon for blackstrap molasses. Meanwhile the Cuban Sugar Stabilization Institute continued its stand at 20c. per gallon.. It was reported that the first lots of Cuban molasses were afloat for storage in the United States. Cuba is faced with a serious storage problem since it has been unable to sell its molasses at 20c. Stockfood manufacturers were also not buying at the offered price. Blackstrap molasses in New Orleans was currently available for about 26c. per gallon and has been steadily declining for the past several weeks. It appeared highly doubtful as to whether the 20c. price would continue to stand much longer.

Meanwhile, although business was only fair, fermentation alcohol producers were not overly sorrowful since the situation enables them to make current stocks last while negotiations with Cuba continue. There seemed little doubt of the ultimate outcome since fermentation producers certainly could not afford to pay the quoted molasses price with alcohol currently selling at 75c. per gallon. Taking a long range view, it does not appear likely that alcohol prices will go up again in the near future especially with additional synthetic production coming on stream this year and next year also. One producer of synthetic has been selling his material at 55c. per gallon for some time and it appears that ultimately alcohol prices must have a downward trend since synthetic alcohol was currently constituting the bulk of the industrial alcohol produced in the country.

Castor Oil—In the second reduction of the month, castor oil was down ¾c. per pound, in tankcars. The current schedule for the USP grade in tanks was 31¾c. per pound. Drum carlots were quoted at 32¾c. per pound with less than carlots at 33¼c. Refined and deodorized castor oil was down a corresponding amount with tankcars currently at 33¼c. per pound. Drum carlots were quoted at 34¼c. and less than carlots at 34¾c. per pound.

Market activity was quite limited with offerings nominally in the neighborhood of $210 per long ton, f.o.b., Brazil. There was little actual buying at this figure as far as could be determined but there were indications that current quotations could readily be shaded.

Imports of castor beans at New York and Philadelphia during the week ended March 27 totaled 465,900 pounds compared to the 7,846,950 pounds landed during the corresponding period last year. There were no imports of castor oil last week as far as could be determined while during the corresponding week last year 243,600 pounds were landed.

Total imports of castor beans to date amounted to 46,673,100 pounds compared to the 57,881,100 pounds landed in the corresponding period last year. Imports of castor oil from the first of the year to date totaled 22,409,800 pounds compared to 22,181,010 pounds brought in during the corresponding period in 1951.

Chloroform—Supplies of this material were somewhat tight due to difficulty in securing enough tin lined drums to ship the material in.

Cholesterol—Supplies of this material were running tight. However some suppliers were in a better position than others. It was reported that some European material was currently available in the domestic market. Quotations ranged from $8.80 to $9.50 per pound in 100 pound los.

Ethylene Oxide—Supply and demand for ethylene oxide were about in balance at present although the supply was tending to be tight. Manufacture of the antifreeze, ethyleneglycol, places the greatest demand upon the ethylene oxide supply. With winter just about past, with the exception of certain sections of the country, pressure on ethyleneglycol has eased temporarily. Preparation for the coming winter is expected to take shape in the not too distant future with the accelerated production of the glycol.

Although the use of ethylene oxide in glycol manufacture accounted for the major share of production, demand for this chemical to be used in acrylonitile production has been increasing with the growing popularity of the synthetic fibers. Ethanolamine manufacture has also taken a significant share of current ethylene oxide production.

Formaldehyde—Demand for this material was proceeding at fair levels. There has been some indication of a better inquiry from the plastics and plywood industries. The government has given the go ahead on more housing this year especially in strategic areas where defense work is proceeding. The result has been a somewhat stepped up demand for plywood and concurrently, resins used as adhesives. These in turn are formulated with formaldehyde. Additional pentaerythritol production has had a very decided affect upon the consumption of formaldehyde. It has been estimated that PE production currently consumes approximately 20 percent of all formaldehyde produced in the country. Demand for PE has been sustained at

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Molasses, blackstrap, ½c. per gal.
Oil, castor, refined and deodorized, ¾c. per lb.
USP, ¾c. per lb.
Sorbitol solution, commercial, aqueous, ¼c. per lb.
regular, 70%, aqueous, ½c. per lb.
Streptomycin, unlabeled, 1 gm. vials, 8.4c. per vial.
5 gm. vials, 44.6c. per vial.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
253.8	253.8	256.7	255.8	267.5

(For Current Prices see Page 9)

PURCHASING AGENT'S BUYING GUIDE

THIAMINE Hydrochloride Mononitrate U.S.P.

		COMPARISON	U. S. P.	ROCHE REG. TYPE*	ROCHE AMPUL TYPE*
Specifications	Hydrochloride	Purity (Dry Basis)	98% min.	99% +	99% +
		Moisture	5% max.	0.75-1.5%	2.0-3.5%
	Mononitrate	Purity (Dry Basis)	98% min.	99% +	—
		Moisture	1% max.	under 1%	—

* Usual Commercial Average Range

Source ▸ HOFFMANN-LA ROCHE INC. VITAMIN DIVISION NUtley 2-5000

Supply ▸ Manufactured by the tons. Samples available on request.

Special qualities ▸ Roche thiamine hydrochloride is available in two types:
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Packaging ▸ HYDROCHLORIDE: packed in polyethylene bags in 1 to 25 Kg. fibre drums. Small quantities in amber screw cap bottles.
AMPUL TYPE is sealed under inert gas in wide mouth screw cap bottles—the Roche G.I.G. (Gassed in Glass) process.
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Biotin Panthenol Pyridoxine hydrochloride
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strong levels and has continued to grow. Thus the relation between the two compounds can readily be seen. Production of hexamethylenetetramine, also produced through formaldehyde, has seen an increase with a corresponding affect upon the rate of consumption of formaldehyde.

Lanolin—Supplies of lanolin have continued scarce in a situation directly resulting from greatly reduced wool scouring operations. Since last year demand for finished woolen products has been at a low ebb as was true of the entire textile industry in general. It has been estimated that orders for woolen cloth were currently approximately one third of the amount given out by the clothing industry last year.

This has resulted in greatly diminished wool scouring operations and currently an output of woolgrease which has been insufficient to keep lanolin producers operating at a level commensurate with lanolin demand. It has been stated by some lanolin producers that stocks of crudes accumulated over the years to carry them over periods of decreased wool scouring operations have been almost exhausted. The situation abroad was reported to be on a similar plane. In Belgium, woolen mills were said to be operating at 30 percent of normal while in Germany operations have fallen to a low of 15 percent. In England, where normally more wool is woven than on any other nation in the world, the industry was reportedly almost at a halt.

Despite the continued short supply in lanolin, there have been some indications that increased demand for wool will develop later in the year thus causing a step-up in wool scouring operations and in turn making additional woolgrease available for lanolin refining. Lanolin continued unchanged being under GCPR.

Methylethylketone—Demand for MEK was said to be proceeding at good levels in comparison to the overall fair demand for lacquer solvents. Supplies were more than adequate for existing demand. There has not been any noticeable pickup in inquiry due to increased defense production to date. Just when the effects of the defense program will be felt remained a matter for conjecture in the industry. Prices were unchanged.

Methylisobutyl Carbinol—Demand for this material was fair having slacked off somewhat due to decreased consumption in the manufacture of petroleum additives. Supplies were adequate for current inquiry. Prices remained unchanged.

Milk Powder—The market in nonfat dry milk solids was steady to firm. Stocks were light and closely held with demand fair to good. The United States Department of Agriculture has announced that the domestic sales price for Commodity Credit Corporation stocks of U. S. Extra Grade Spray Nonfat Dry Milk Solids for the balance of March 1952 will be 17c. per pound. Spray process was currently quoted at 17c. to 19½c. per pound with roller process at 17c. to 18¾c. per pound, in carlots.

The market in spray dried whole milk was steady to firm. Supplies were light but generally ample for good demand. Quotations ranged from 40c. to 46¾c. per pound depending upon butterfat content.

The dairy price support program for the coming year has been announced by the USDA. The new program will become effective April 1 following the expiration of the current program. In carrying out the support program for the coming year, the Department will offer to make carlot purchases at the following prices until March 31, 1953:—Nonfat dry milk solids; spray process, 17c. and roller process, 15c. per pound.

Under the new program the maximum allowable moisture content of nonfat dry milk solids has been reduced to 3.5 percent, although the present standard for U. S. extra grade nonfat dry milk solids permits a 4 percent maximum moisture.

Molasses — Prices for cane blackstrap declined ½c. per gallon at most points other than California during the week ended March 25, 1952. Prices at California points dropped $2 per ton (slightly over one cent per gallon). Overall demand was improved from the preceding week. Supplies of cane blackstrap were adequate at all points with the exception of Savannah where the supply has been limited for some time.

Production of cane blackstrap in Cuba as of March 15, 1952, was 166,200,000 gallons according to the Cuban Sugar Stabilization Institute. Production during the corresponding period in 1951 totaled 129,200,000 gallons. Yield of blackstrap per short ton of raw sugar as of March 15, 1952, was 48.8 gallons while the yield as of the corresponding date last year was 42.9 gallons. According to the estimate of 320,000,000 gallons of cane blackstrap due from Cuba this year, approximately one half of the year's production had been reached by the middle of March. Negotiations were still proceeding on the sale of the 1952 crop with Cuba asking 20c. per gallon and fermentation alcohol and stockfood manufacturers offering from 14c. to 16c. per gallon tops. Demand for cane blackstrap at New York and New Orleans was moderate with supplies adequate. The price in New York was 28 cents and in New Orleans, 26 cents.

Ox Gall—Supplies of this material were very tight, according to observers in the industry. Demand was continuing at high levels. Dessicated, powdered ox gall was currently quoted at $4.35 per pound, in five pound lots, by a primary producer although there have been quotations as high as $6 per pound from some rehandlers or small producers of the material.

Paraphenetidin—Supplies of this material were reportedly extremely tight. Demand for this pharmaceutical and dyestuff intermediate has been sustained at a high level according to reports. Prices remained unchanged.

Perchloroethylene—Demand for this solvent was about in balance with the supply according to the Defense Production Administration. Producers, in general, concurred with this view. Production of perchloroethylene in December last year totaled 10,194,970 pounds compared

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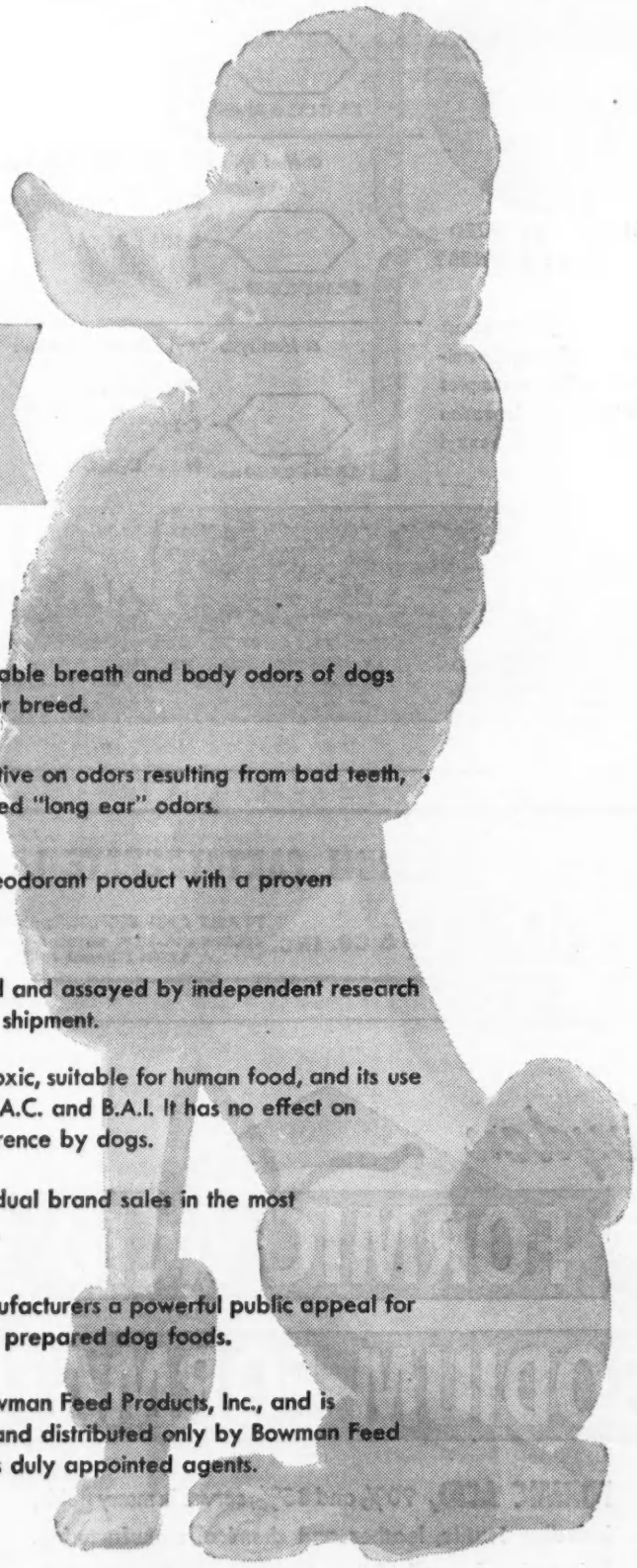

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to the 9,447,661 pounds produced in November, 1951, the Tariff Commission reported.

Propyleneglycol—Demand for this material was good with supplies quite ample for current inquiry. Production of propyleneglycol in December, 1951, totaled 7,738,651 pounds compared to the 8,390,098 pounds turned out in November of the same year, according to the Tariff Commission.

Salicylic Acid—Demand for this material continued to surpass supply. Although the supply situation was easier than it had been for some time, producers reported an inability to accommodate everyone. Prices were unchanged.

Sorbitol—As a result of increased manufacturing economies, the price of sorbitol solutions was reduced last week. Commercial, aqueous sorbitol solution was reduced ¼c. per pound, in tanks. The current schedule for this material was 23¼c. per pound in tanks, 24¼c. in carloads, 25c. per pound in ton lots and 25¼c. per pound for less than ton lots.

Regular, 70 percent, aqueous sorbitol solution was down ½c. per pound in tanks. The current schedule in tanks was 15c. per pound in tanks, 16c. in carloads, ton lots at 16¾c. per pound and less than ton lots at 17c.

Streptomycin—Unlabeled vials of streptomycin were reduced last week following an earlier reduction in the bulk. The current schedule for 1 gram vials was 30c. per vial. Five gram vials were quoted at $1.32 per vial. The bulk material was 27c. per gram in 50 kilo lots or more.

Trichloroethylene—Although the Defense Production Administration recently classified this metal degreasing solvent as being in insufficient supply to meet essential civilian and defense needs, it has become apparent that this was not the case at the present time. One major producer of the compound reports that he finds supply and demand in approximate balance. In addition to this fact was the announcement of greatly increased supplies in trichloroethylene to industry by another producer. This increased availability was ascribed to an expansion of manufacturing facilities. Demand pressure was expected to increase with the anticipated speedup in defense manufacture in the not too distant future, it was pointed out.

Trypsin—Demand for this material was sporadic. Supplies were adequate for existing inquiry. The current schedule for pharmaceutical trypsin 1:80 was $5.00 per pound.

Red Star Vice-Presidencies To R. Foote and J. Kirkman

Red Star Yeast & Products Company, Milwaukee, Wis., has elected Robert T. Foote and James A. Kirkman, jr., vice-presidents. Mr. Foote was also elected a director.

Mr. Foote, now vice-president in charge of manufacturing and research, has been with Red Star Yeast more than eleven years, during which he has held various positions in the manufacturing and research departments. In 1950 he was appointed executive director in manufacturing and research. Mr. Kirkman joined the company in 1949 after three years with Red Star's advertising agency in New York. In 1950 he was made executive director of sales and advertising. He is now vice-president in charge of sales and advertising.

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Parke, Davis Canadian Post to Gordon Hambley

Graydon L. Walker, director of US and Canadian sales for Parke, Davis & Co., Detroit, Mich., has announced the promotion of Gordon B. Hambley as Canadian field supervisor, a new post. Mr. Walker explained that, effective April, Mr. Hambley will function as an assistant to J. H. Stephenson, manager of Canadian affairs for the pharmaceutical firm.

Mr. Hambley joined Parke, Davis as a salesman at Seattle, Wash., in 1938. In 1947, he rose to field manager in the Seattle branch, holding that post until his latest promotion.

Trade Briefs

World Health Organization has established April 7 as World Health Day.

Miss Alma B. Madden was given a testimonial dinner recently by the Cook-Waite Laboratories, Inc., a subsidiary of Sterling Drug, Inc., Wheeling, W. Va., on the completion of fifty years of service with the company.

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Chicago Cosmetic Chemists To Hear Miss Carlyle Apr. 29

The Chicago chapter of the Society of Cosmetic Chemists will feature "Ladies Night" at its meeting April 29 in Henrici's restaurant. Miss Celeste Carlyle, nationally known consultant on style and beauty, will be the guest speaker. Her topic will be, "Props for Your Poise."

Histochemcial Society

—*Continued from page 7*

W. Holt and Shields Warren, New England Deaconess Hospital, Boston.

"Autoradiographic Visualization of Atomic Interchange in Various Mineralized Tissues," Leonard-Francis Belanger, University of Ottawa, Ottawa, Canada.

"Enzyme Activity of Granules Elaborated in Mouse Liver and Spleen Following Intravenous Injections of ThO_2" E. Bell, Brown University, Providence, R. I.

"Nuclei and Mitochondria in *Escherichia Coli* Cells Infected with T2 Bacteriophage," Stuart Mudd, Ernst H. Buetner, James Hillier and Philip E. Hartman, University of Pennsylvania Medical School, Philadelphia.

"The Differential Staining of Mitochondria and Nuclei in Mycobacteria," L. C. Winterschied and Stuart Mudd, University of Pennsylvania Medical School.

"The Quantitative Histochemical Estimation of Nucleic Acids and Enyzmatic Activity in Heterogeneous Tissue," Edgar B. Taft and Jesse F. Scott, Massachusetts General Hospital, Boston.

"The Determination of Nucleic Acids in Single Tissue Sections," Jesse F. Scott and Alba P. Fraccastoro, Massachusetts General Hospital.

Effect of Cortisone

The program on April 8 will be divided into two sections. Leading of activities in section A will be a discussion of the "Effect of Desoxycorticosterone and Cortisone on Mucoproteins and Collagen Fibers in Tissue Cultures of Fibroblasts" by R. E. Mancini and E. S. de Lusting, Instituto Nacional de Endocrinologia. Other papers to be presented at section A are the following:—

"Mucoproteins of the Connective Tissue of the Skin in Generalized Myxedema," R. E. Mancini, J. C. Garberi and F. A. de la Balze, Instituto Nacional de Endocrinologia.

"Comparison of Alkaline Phosphatase Activity in Generalized Myxedema," Edith Herman and Helen Wendler Deane, Harvard Medical School.

"The Effect of Variations in a Standard Technic on the Alkaline Phosphatase activity of Mouse Liver with Biliary Duct Obstruction," Edgar B. Taft, Massachusetts General Hospital.

"Nuclear Staining in the Gomori Method for Alkaline Phosphatase," Irwin Feigin and Abner Wolfe, Mount Sinai Hospital and College of Physicians and Surgeons, Columbia University, New York.

"A modification of the Gomori Method Avoiding Artefact Staining of the Nucleus," J. B. Goetsch, P. M. Reynolds and Henry Bunting, Yale School of Medicine, New Haven, Conn.

"Alterations in Chemical Constituents and Enzyme Activity After Freeze-Drying and Acetone Fixation," Hisako O. Yokoyama, Max Berenbom and Robert E. Stowell, University of Kansas Medical School.

"A Method for the Histochemical Demonstration of Aryl Sulphatase," Alexander M. Rutenberg and Arnold M. Seligman, Beth Israel Hospital, Boston.

"Histochemical Localization of Acetyl-Cholinesterase in the Central Nervous System and Myoneural Junction," Herbert A. Ravin, Sumner I. Zacks and Arnold M. Seligman, Beth Israel Hospital, Boston.

"Histochemical Demonstration of Beta-D-Galactosidase," Selma H. Rutenberg, Richard B. Cohem, Kwan-Chung Tsou and Arnold M. Seligman, Beth Israel Hospital, Boston.

Human Blood Cells

Leading off section B's program on the afternoon of the eighth will be a discussion of "Binding of Acid and Basic Due at Varied pH by Human Blood Cells" by Leon P. Weiss and Jean S. Andrews, Harvard Medical School. Other section B papers are as follows:

"Studies in Microabsorption Spectroscopy of Nerve Cells," Harold Koenig, Daniel Schildkraut and Ruth S. Koenig, Chicago Medical School, Chicago.

"The Nucleic Acid Content of Gray Matter (Anterior Column) of the Spinal Cord Following Axonal Section," R. A. Portis, A. Lazarow and N. L. Hoerr, Western Reserve University, Cleveland, Ohio.

"Histological Staining with Methyl Green-Pyronin," N. B. Kurnick, Tulane University, New Orleans, La.

"Cytological Observations on Compensatory Renal Hypertrophy," N. B. Kurnick, Tulane.

"Differentiation of Ribonucleic Acid, Desoxyribonucleic Acid and Acid Mucopolysaccharides in Histologic Sections by Selective Extraction with Acids," William B. Atkinson, University of Cincinnati, Cincinnati, Ohio.

"A Comparison of the Estimation of Desoxyribo nucleic Acid (DNA) in Isolated Animal Nuclei by Ultraviolet Microspectrophotometry and by Biochemical Analysis," C. Leuchtenberger, C. Leuchtenberger, C. Vendrely and R. Vendrely, Western Reserve and College de France, Paris, France.

"A Method to Supplement Microphotometry for the Quantitative Determination of Desoxyribonucleic acid (DNA) in Tissues," William H. Carnes, Norman Weissman and Benjamin Goldberg, Stanford University Medical School, San Francisco, and Johns Hopkins University, Baltimore, Md.

"Histochemical Observations on Normal and Leukemic Cells During the Development of Mouse Leukemia AK4," Thomas C. Hall and Helen Wendler Deane, Massachusetts General Hospital and Harvard Medical School.

"A Probable Mechanism for the Feulgen Reaction," M. A. Lessler, Ohio State.

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Antibiotic Growth Theory Challenged by Researchers

The current theory as to how antibiotics stimulate animal growth was challenged last week by three researchers from the State College of Washington at the American Chemical Society's 121st national meeting in Buffalo, N. Y.

Explaining that many research workers believe antibiotics knock out harmful bacteria in the intestines which might impede growth, Dr. Joel R. Stern, Joyce C. Gutierrez and Dr. James McGinnis of Washington State's department of poultry science reported that when high-potency germicides and detergents, which also have antibacterial traits, were fed to baby chicks the growth rate of the birds was not increased. During the tests, the activity of several types of germicide and detergent products was compared with that of penicillin, one of the most efficient antibiotic growth stimulators, according to Dr. Stern, who presented the report before the society's division of biological chemistry.

Even when the chicks were fed a thousand times more germicide or detergent than the amount of penicillin given to other birds, no consistent increases in growth rates were produced, Dr. Stern declared. Growth was slowed in some cases where large amount of the antibacterial products were used, it was said. Birds fed penicillin, on the other hand, were 10 to 15 percent heavier in every case than birds fed with usual unfortified diet, Dr. Stern reported.

Bristol Names Dr. Scott

Dr. Charles C. Scott has been appointed medical director of Bristol Laboratories, Inc., Syracuse, N. Y. Prior to his association with Bristol, Dr. Scott was director of pharmacology at Chilcott Laboratories, Morris Plains, N. J. He was previously associated with Eli Lilly & Co. as a pharmacologist.

Fred Portz Adds Two

Fred Portz, Waukesha, Wis., has announced the appointment of George P. Kinzfogl and John T. Churchville as technical sales and service representatives. Portz handles a line of industrial and fine chemicals.

Walsh General Manager

Raymond A. Lermond joins the John D. Walsh Company, New York, today as general manager. Mr. Lermond comes to Walsh from Magnus, Mabee & Reynard, Inc., New York, where he was purchasing agent. He became a member of the Magnus organization three years ago, and, prior to that, served for thirteen years with V. & E. Kohnstamm, Inc., New York, rising with that concern to become purchasing agent.

Popper Selling 'Rejafix' Machines

"Rejafix" marking and printing machines are now being distributed in the United States by Popper & Sons, Inc., New York. Employing metal types or cuts, the machines are claimed to be the only ones of their kind which will mark, print or decorate any material such as glass, plastics, ceramics, wood, rubber, textiles, metals, or paper. Standard machines of all sizes are available, ranging from small hand-operated units to large fully-automatic equipment. Additional information may be obtained on request to Popper & Sons, Inc., 300 Fourth avenue, New York 10.

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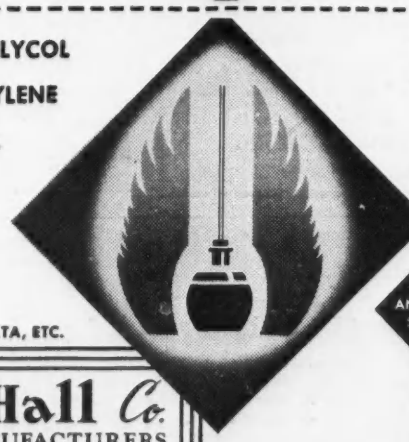

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FTC Orders Ind. Standard To Cease Price Variations

An amended order directing the Standard Oil Company (Indiana) to stop certain alleged discriminatory pricing practices in the sale of gasoline has been served on the company by the Federal Trade Commission, it was announced March 27.

The order grows out of the commission's investigations of gasoline sales in the Detroit area and the commission's original order charging violations of the Robinson-Patman act. That order was subsequently struck down by the Supreme Court of the United States in a decision upholding the right of Standard to discriminate in price among its customers in "good faith" to meet equally low prices of a competitor. In its latest order, as a result of reviewing the facts in the light of the supreme court's decision, the commission rejected the "good faith" defense of Standard on the grounds that lower price offers of competitors, except in one instance, were not continuing offers and that its pricing policy in the Detroit area had been in existence prior to the Robinson-Patman act.

Speaking for the company, Thomas E. Sunderland, general counsel, stated, "During all of the eleven years this case has been pending, our good faith in meeting the lower prices of our competitors has been assumed or conceded by the trade commission and also by the courts." He added that the company feels strongly about the "good faith" principle, and does not "intend now to yield to this latest 'win at any cost' strategy of the trade commission."

Socony and Texas Co. Pulling Out of Argentina

The Texas Company and Socony-Vacuum Oil Company last week concluded initial negotiations for their withdrawal from the Argentine market by selling their jointly-owned subsidiary, Ultramar Oil Company, to the Peron government. Price of the transaction was not disclosed, but it was estimated at 125,000,000 pesos or about $9,000,000. That was the equivalent of the two American companies' original investment when Ultramar was formed in 1933.

Meanwhile, in Egypt, Socony-Vacuum announced that it had given notice to its 235 employees in the oil fields branch and was giving up its efforts to produce crude oil in Egypt. The company stated it was abandoning drilling operations because it could not continue profitably under provisions of a 1948 Egyptian act governing exploration and development of oil fields by foreign companies.

'Pluronics' Production Upped Price Cut, Wyandotte Reveals

Increased production of "Pluronics," concurrent with a price reduction, has been announced by Carl Pacifico, director of market development of Wyandotte Chemicals Corporation, Wyandotte, Mich. Both factors were brought about by the rapidly growing demand for these nonionic detergents. New manufacturing facilities will enable Wyandotte to produce adequate quantities of "Pluronics" to permit their use on a commercial scale, it was said.

Based upon use of polyoxypropylene glycols as the hydrophobic unit, this series of 100 percent active agent nonionics includes liquid grades ("Pluronics L44," "L62" and "L64") of uniform viscosity, and "Pluronic F68," the first 100 percent active flake nonionic detergent ever commercially produced.

Patterson, Moos & Co. Relocates

Patterson, Moos & Co. has moved its offices and laboratories to larger quarters. Representing an expansion of physical facilities of 100 percent, the company is now located at 90-28 Van Wyck Expressway, Jamaica, N. Y., Dr. Anthony M. Moos, vice-president, has announced. The company is engaged in intensive electronic and chemical research and development work as a prime contractor for the military services, Dr. Moos said.

Revson Co. Issues Price List

R. F. Revson Company has issued a new price list giving complete small-lot price data on its line of chemicals. The company, which handles a varied line, quotes on lots ranging from one-quarter pound up to twenty-five pounds. Copies of the list are available on request to Revson, 243 West 17th street, New York 11.

Surface Active Agent Data Issued

Alrose Chemical Company has issued a technical bulletin on its line of "Nonisols," which are described as nonionic surface active agents of the polyoxyalkylene fatty ester type. The bulletin gives specifications of the products, and outlines their applications in agriculture, fuel oils, metal processing, plastics, starch stabilization, textiles, paints, toilet goods and pharmaceuticals. Copies of the bulletin are available on request to Alrose, Box 1294, Providence, R. I.

API Production Division's Eastern District Meets Wed.

The eastern district of the American Petroleum Institute's Division of Production will hold its spring meeting in Pittsburgh, Pa., this week, with more than 600 oil men from an eight-state area expected to be in attendance. The meeting will be held in the William Penn hotel April 2 to 4. States represented in the eastern district are Pennsylvania, New York, West Virginia, Ohio, Indiana, Michigan, Kentucky and Illinois.

Merchants Export-Import Moves

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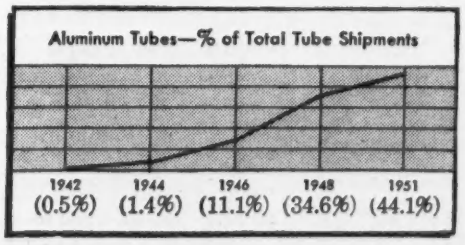

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25 dms, United Asiatic Corp, Keelung
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CIVET—1 cs, New York Trust Co, Aden
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MARJORAM—49 bgs, Julis A. Marichal, Ciudad Trujillo
MENTHOL—50 cs, Rio de Janeiro
METHYLENE CHLORIDE—20 dms, Blue Fries N Y Inc, Hamburg
MILK POWDER—400 bgs, D L Sterling, Bremen
320 bgs, D L Sterling, Rotterdam
MILORI BLUE—10 cks, C J Osborne & Co, Rotterdam
MOLASSES—9,732 tons, Pacific Molasses Co, La Romana
3,866 tons, Chas Pfizer & Co, Dunkirk
MONOSODIUM GLUTAMATE—300 dms, Universal Sales Co, Yokohama
MONTAN WAX—300 bgs, Wax & Rosin Products, Bremen
MUSTARD SEED—67 bgs, Chas Gulden, London
MYROBALANS—5,960 bgs, Barkey Importing Co, Bombay
NAPHTHALENE—875 bgs, Gallard Schlesinger, Antwerp
800 bgs, Hudson Shipping Co, Antwerp
NUTMEGS—200 bgs, Norda Essential Oil & Chemical Co, St Georges
200 bgs, Middleton & Co, St Georges
34 bgs, Gillespie & Co, St Vincent
400 bgs, Landes & Balint, St Georges
NUX VOMICA—258 bgs, Antwerp
OLIBANUM GUM—67 bgs, New York Mills, Bombay
67 bgs, Tragacanth Importing Co, Bombay
134 bgs, S B Penick & Co, Bombay
OLIVE OIL—53 dms, Credit Suisse, Malaga
ORANGE OIL—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
PALM OIL—525 dms, Lever Bros, Matadi
955 tons, Matadi
PALMAROSA OIL—2 pots, Volkart Bros, Bombay
PAPAIN—24 hf chts, C L Huisking, Colombo
28 hf chts, S B Penick & Co, Colombo
19 hf chts, Meer Corp, Colombo
PAPRIKA—50 bgs, A A Sayia & Co, Alicante
350 bgs, Gallagher & Ascher, Alicante
250 bgs, R F Downing, Alicante
500 bgs, Joseph Weinstein, Alicante
680 bgs, Alicante
PARSLEY SEED—100 bgs, S B Penick & Co, Rotterdam
PEATMOSS—1,000 bls, E J Lang, Bremen
1,400 bls, J E Bernard, Bremen
2,000 bls, Atkins & Durbrow, Bremen
2,050 bls, Premier Peatmoss Corp, Bremen
400 bgs, Halfmoon Mfg & Trading Corp, Antwerp
935 bls, Bank of Manhattan Co, Dublin
PEPPER, BLACK—80 bgs, M Rothschild & Co, Cochin
240 bgs, Virchand Panchand, Cochin
240 bgs, Joensson & Cross, Cochin
240 bgs, Brown Bros, Cochin
160 bgs, M Golodetz, Cochin
880 bgs, Mincing Trading Corp, Cochin
240 bgs, Chemical Bank & Trust Co, Cochin
88 bgs, Chase National Bank, Alleppey
80 bgs, Volkart Bros, Alleppey
80 bgs, Bank of America, Alleppey
80 bgs, Mincing Trading Corp, Halifax
80 bgs, Nederlandsche Handel, Alleppey
80 bgs, A C Israel, Mangalore
80 bgs, Imperial Commodities Corp, Mangalore
80 bgs, Joensson & Cross, Mangalore
160 bgs, A G Dunn, Cochin
160 bgs, Otto Gerdau, Cochin
240 bgs, A C Israel, Cochin
240 bgs, National City Bank, Cochin
80 bgs, Wolmet Raw Products Co, Cochin
160 bgs, K A Export Corp, Cochin
80 bgs, D Hecht & Co, Cochin
80 bgs, Littlejohn & Co, Cochin
80 bgs, Netherlands Trading Society, Cochin
80 bgs, Internatio Rotterdam, Cochin
80 bgs, East India Trading Co, Cochin
480 bgs, Joensson & Cross, Bombay
240 bgs, Superintendence Co, Southampton
80 bgs, Irving Trust Co, Bombay
240 bgs, L Wilner, Beirut
1,440 bgs, Alleppey
PEPPERMINT OIL—20 cs, M M Bengue Inc, Marseilles
3 cs, James Haywood & Son, Kobe
PETITGRAIN OIL—12 dms, National City Bank, Buenos Aires
PETROLEUM, CRUDE—101,560 bbls, California Oil Co, Las Piedras
50,594 bbls, Shell Oil Co, Curacao
98,165 bbls, Esso Standard Oil Co, Las Piedras
88,360 bbls, Cities Service Oil Co, Las Piedras
178,201 bbls, Esso Standard Oil Co, Cartagena
11,960 bbls, Asiatic Petroleum Corp, Curacao
PHTHALIC ANHYDRIDE—500 cks, Fallek Products Co, Naples
PIMENTO BERRIES—100 bgs, Otto Gerdau, Kingston
LEAF OIL—2 dms, George Lueders & Co, Kingston
POLLACKLIVER OIL—65 dms, Consumers Import Co, Yokohama
50 dms, Nopco Chemical Co, Yokohama
50 dms, Interocean Chemical & Minerals Corp, Yokohama
10 dms, Arista Oil Products Co, Yokohama
25 dms, H A Gogarty, Yokohama
20 dms, E F Drew & Co, Yokohama
60 dms, National City Bank, Yokohama
POLYVINYL CHLORIDE—2 bgs, National Lead Co, Rotterdam
POPPY SEED—100 bgs, C M Van Sillevoldt, Rotterdam
100 bgs, Becker Mayer Seed Co, Rotterdam
200 bgs, Rotterdam
POTASSIUM CYANIDE—178 dms, Hanson Van Winkle Munning Co, Manchester
MURIATE—1,784 tons, French Potash & Import Co, Antwerp
POTATO STARCH—500 bgs, Haberland Mfg. Co, Rotterdam
PRUSSIAN BLUE—4 cks, Pulverizing Machinery Co, Rotterdam
PSYLLIUM SEED—763 bgs, S B Penick & Co, Bombay
435 bgs, T M Duche & Sons, Bombay
135 bgs, Prentiss Drug & Chemical Co, Bombay
PYRIDIN—10 dms, American Union Transport, Rotterdam
QUEBRACHO EXTRACT—7,181 bgs, Tanimex Corp, Buenos Aires
1,500 bgs, International Products Corp, Buenos Aires
1,649 bgs, River Plate Import & Export Corp, Buenos Aires
1,006 bgs, Buenos Aires
QUICKSILVER—200 flks, Chase National Bank, Tampico
RADIUM ELEMENT—1 cs, Radium Chemical Co, Antwerp
RAPE SEED—100 bgs, S Davis Co, Rotterdam
550 bgs, Prunty Seed & Grain Co, Rotterdam
330 bgs, Wagner Feed Co, Rotterdam
RESIN—3 bgs, O G Innes Corp, Matadi
2 dms, J Bancroft & Sons, London
ROSEMARY LEAVES—120 bls, Lisbon
SACCHARIN CRYSTALS—5 cs, Seaboard Industries, Rotterdam
SAFROL—10 dms, Magnus, Mabee & Reynard, Yokohama
SAGO FLOUR—573 bgs, Stein Hall & Co, Singapore
548 bgs, Harrisons & Crosfield, Singapore
SCHEELITE ORE—110 bgs, Derby & Co, Lexioes
SEEDLAC—500 bgs, H C Smith, Calcutta
SENNA LEAVES—78 bls, Antwerp
SESAME SEED—247 bgs, W R Grace & Co, Corinto
200 bgs, Archibald & Kendall, Corinto
150 bgs, R J Spitz, Corinto
250 bgs, Louis Furth, Corinto
SHARKLIVER OIL—15 dms, Consumers Import Co, Yokohama
40 dms, Albumina Supply Co, Yokohama
40 dms, Maxim Chemical Co, Yokohama
20 dms, Albumina Supply Co, Keelung
15 dms, Ovimpex Inc, Karachi
SHELLAC—25 bgs, Dings & Schuster, Bremen
SODIUM SILICOFLUORIDE—308 bgs, Dorf Intern, Rotterdam
SOLELIVER OIL—5 dms, Consumers Import Co, Yokohama
SULPHUR—4 kgs, American Express Co, Wellington
TANKAGE—560 bgs, H J Baker & Bros, Timaru
659 bgs, Napier
TAPIOCA FLOUR—2,500 bgs, Bankers Trust Co, Itaji
TEAWASTE—30 bgs, Tetley Tea Co, London
154 bgs, Citro Chemical Co, London
62 chts, Citro Chemical Co, London
TOLU BALSAM—23 cs, Elias Mezrahi, Barranquilla
TONKA BEANS—17 bbls, Kennedy Butcher & Co, Port of Spain
TRAGACANTH GUM—20 cs, V Simidian & Co, Beirut
37 cs, Meer Corp, Beirut
TUNG OIL—130 tons, Bank of California, Buenos Aires
517 dms, Buenos Aires
TUNU GUM—114 cs, L A Dreyfus, Corinto
UMBER—393 bgs, Chase National Bank, Istanbul
UREA—10 dms, Monsanto Chemical Co, Marseille
20 dms, Libbey-Owens-Ford Glass Co, Marseille
VALERIAN ROOT—20 bls, S B Penick & Co, Rotterdam
41 bgs, Lo Curto & Funk, Bombay
VALONIA CUPS—5,260 bgs, Chemical Bank & Trust Co, Izmir
VANILLA BEANS—17 cs, Lo Curto & Funk, Havre
16 cs, Dodge & Olcott, Vera Cruz
12 cs, R L Oppenheimer, Marseille
VEGETABLE GUM—10 dms, P Lorillard & Co, Southampton
WAX—73 cs, Hans Tobeason, Rio de Janeiro
WHITING—1,000 bgs, N H Weitzner, Antwerp
WOLFRAM ORE—180 bgs, Guaranty Trust Co, Leixoes
160 bgs, Wah Chang Corp, Hong Kong
275 bgs, W R Grace & Co, Mollendo
151 bgs, Wah Chang Corp, Penang
406 bgs, Bangkok
80 bgs, Hong Kong
WOLFRAMITE—231 bgs, First National Boston, Lisbon
400 bgs, Lisbon
WOOL GREASE—258 dms, N I Malmstrom, Manchester
22 dms, Davies Turner & Co, Manchester
115 dms, Hummel Chemical Co, Rotterdam
7 dms, Eelsingh & Lugtigheid, Rotterdam
13 bbls, N I Malmstrom, Bremen
52 dms, Gallard Schlesinger, Antwerp
108 dms, N I Malmstrom & Co, Genoa

Baltimore

BONE—394 bgs, A M Goldstein, Istanbul
MEAL—500 bgs, Wessel Duval & Co, Antwerp
1,300 bgs, D C Andrews & Co, Manchester
COTTON LINTERS—3,121 bls, Southern Waste Co, Rotterdam
FISHMEAL—823 bgs, Wessel Duval & Co, San Antonio
770 bgs, W R Grace & Co, Talcahuano
HORNMEAL—990 bgs, E J Lang, Montevideo
LEATHERMEAL—500 bgs, Ashcroft Wilkinson Co, Liverpool
500 bgs, Ashcroft Wilkinson Co, Manchester
MANGANESE ORE—5,000 tons, U S Steel Co, Vizagapatam
1,250 tons, National City Bank, Coquimbo
NITROGEN FERTILIZER—500 bgs, Wessel Duval & Co, Liverpool
PEATMOSS—1,400 bls, New Amsterdam Import Co, Bremen
440 bls, Atkins & Durbrow, Bremen
1,450 bls, E J Lang, Bremen
420 bls, Halfmoon Mfg & Trading Co, Rotterdam
760 bls, C Gastmeyer, Rotterdam
QUEBRACHO EXTRACT—1,625 bgs, River Plate Import & Export Corp, Buenos Aires
TAPIOCA FLOUR—3,296 bgs, Geismar & Co, Itajai
TARA POWDER—1,993 bgs, First National Baltimore, Salaverrey

Boston

GLUE—800 bgs, D C Andrews & Co, London
400 bgs, London
MILK POWDER—1,880 cs, J H Hobson, Auckland
3,280 bgs, J H Hobson, Auckland
NAPHTHALENE—3,750 bgs, Fallek Products Co, Antwerp
NICKEL SULPHATE — 50 cks, Industrial Sales Corp, Antwerp
OSSEIN—735 bgs, Atlantic Gelatine Co, Antwerp
PEATMOSS—475 bls, New Amsterdam Import Co, Bremen
QUEBRACHO EXTRACT—2,000 bgs, River Plate Import & Export Corp, Buenos Aires
2,700 bgs, International Products Corp, Buenos Aires
SEEDLAC—20 bgs, First National Boston, Bangkok
TANKAGE—202 bgs, International Packers Ltd, Montevideo
TAPIOCA FLOUR—2,000 bgs, Trust Co of N A, Itajai

Los Angeles

CALCIUM NITRATE—50,000 bgs, Wilson & Geo Meyer & Co, Heroya
CHILLIES—35 bgs, Hiomoco American Co, Kobe
CINNAMON QUILLS—50 bls, W R Grace & Co, Colombo
CODLIVER OIL — 20 dms, Peder Devold Co, Haugesand
COPRA, BULK—784 short tons, Spencer Kellogg & Sons Inc, Cebu
560 short tons, Spencer Kellogg & Sons Inc, Dumaguete
672 short tons, Vegetable Oil Products Co Inc, Legaspi
500 long tons, The American Trust Co, Cebu
870.08 long tons, The Procter & Gamble Co, Zamboanga
CAKE—2,000 bgs, Van Waters & Rogers Inc, Manila
13,440 bgs, Wilbur Ellis Co, Manila
2,240 bgs, Atkins Kroll & Co, Manila
4,480 bgs, Pacific Vegetable Oil Corp, Manila
MEAL—4,400 bgs, Snow & Co, Manila
2,240 bgs, Balfour Guthrie & Co Ltd, Iloilo
PELLETS—6,000 bgs, Snow & Co, Manila
DICALCIUM PHOSPHATE—2,006 bgs, Girard Trust Corn Exchange Bank, Antwerp
EUCALYPTUS OIL—20 dms, E S & A Bank Ltd, Sydney
FISHLIVER OIL—50 dms, Wilbur Ellis Co, Yokohama
47 dms, International Fisheries Corp, Yokohama
KARAYA GUM—122 bgs, Hathaway Allied Products, Bombay
MOLASSES—660,987 kilos, Pacific Molasses Co, Topolobampo
POLLACKLIVER OIL—25 dms, Arista Oil Products Co, Yokohama
SHARKLIVER OIL—50 dms, Girard Trust Corn Exchange Bank, Yokohama
UREA—766, bgs, Wilson & Geo Meyer & Co, Heroya
7,715 bgs, Hanseatic Corp, Antwerp

Norfolk

AMMONIUM CHLORIDE—497 bgs, Chemical Mfg Co, Liverpool
LEATHERMEAL—1,522 bgs, Atkinson Haserick, Manchester
PEATMOSS—725 bls, W M Stone & Co, Bremen
POTATO STARCH—500 bgs, American Key Products Co, Rotterdam
300 bgs, Harvey & Co, Rotterdam
QUEBRACHO EXTRACT—1,629 bgs, River Plate Import & Export Corp, Buenos Aires
SODIUM BICARBONATE—990 bgs, Chemical Mfg Co, Liverpool
UREA—4,000 bgs, Chemical Mfg Co, Glasgow

Philadelphia

ANTIMONY OXIDE—200 bgs, National Lead Co, Glasgow
ASBESTOS FIBER—7,380 bgs, Keasby & Mattison, Beira
BALL CLAY—300 tons, Moore & Munger, Avonmouth
325 tons, United Clay Corp, Avonmouth
BONE BLACK—1,300 bgs, E J Lang, Bordeaux
MEAL—2,204 bgs, Woodward & Dickerson, Antwerp
42,021 bgs, Corn Exchange Bank, Antwerp
1,125 bgs, Nelson Corp, Antwerp
PHOSPHATE—2,204 bgs, C Page Corp, Avonmouth
1,000 bgs, Woodward & Dickerson, Antwerp
CODLIVER OIL—350 bbls, Arista Oil Products Co, Kristiasund
100 dms, Oslo
CRESYLIC ACID—125 dms, Glasgow
GRAPHITE—250 bgs, Market St National Bank, Colombo
GYPSUM—6,106 tons, U S Gypsum Co, Hantsport
LICORICE ROOT—5,344 bls, Guaranty Trust Co, Antwerp
MENTHOL—77 cs, National City Bank, Santos
MILK POWDER—7,234 ctns, J H Hobson, Auckland
6,440 bgs, J H Hobson, Auckland
MOLASSES—1,476 tons, T H Davies Co, Guimaras
PEATMOSS—900 bls, Halfmoon Mfg & Trading Corp, Rotterdam
1,200 bls, Hanover Bank & Trust Co, Bremen
1,150 bls, C Gastmeyer, Rotterdam
25 bls, Premier Peatmoss Corp, Bremen
425 bls, Hamburg
PETROLEUM, CRUDE—121,655 bbls, Socony Vacuum Oil Co, Puerto la Cruz
328,690 bbls, Atlantic Refining Co, Puerto la Cruz
220,000 bbls, Gulf Oil Co, Mena al Ahmadi
224,482 bbls, Gulf Oil Co, Las Piedras
168,829 bbls, Gulf Oil Co, Puerto la Cruz
120,000 bbls, The Texas Co, Puerto la Cruz
240,264 bbls, The Texas Co, Pamatacual
114,448 bbls, The Texas Co, Las Piedras
SODIUM NITRATE—2,500 tons, Guaranty Trust Co, Tocopilla
TAPIOCA FLOUR—801 bgs, Geismar & Co, Itajai
500 bgs, Bank of Nova Scotia, Itajai

San Francisco

CASSIA—50 bls, S L Jones & Co, Hong Kong
CHILLIES—50 bgs, M S Cowen Co, Kobe
COPAL GUM—140 bgs, H W Peabody & Co, Manila
COPRA CAKE—2,000 bgs, Pacific Vegetable Oil Corp, Cebu
2,000 bgs, Balfour Guthrie, Cebu
MEAL—2,000 bgs, T D Stevenson, Manila
EUCALYPTUS LEAVES—58 bls, Melbourne
FISHLIVER OIL—50 dms, Consumers Import Co, Yokohama
25 dms, W J Byrnes & Co, Yokohama
20 dms, Alaska Fish Oil Extractors, Yokohama
50 dms, Vitamins Inc, Yokohama
OLIVE OIL—100 dms, A Giurlani & Co, Leghorn
PETROLEUM CRUDE—122,014 bbls, Standard Oil Co, Miri
SHELLAC—10 bgs, Calcutta
TAPIOCA—150 bgs, L G Glick, Bangkok

Dr. Bjorksten Named Head Of Ray-O-Vac Research

Ray-O-Vac Company, Madison, Wis., has announced the appointment of Dr. Johan Bjorksten as head of research. Dr. Bjorksten is in charge of directing the research and development activities of Ray-O-Vac. Dr. Bjorksten since 1944 has headed his own company, Bjorksten Research Laboratories. Prior to that, he held the positions of chemical director of Quaker Chemical Products, chief chemist for Ditto, Inc., and was in charge of development for the Pepsodent Company.

Carbide Issues 'Carbitol' Bulletin

A new technical bulletin on butyl "Carbitol" has been issued by Carbide & Carbon Chemicals, a division of Union Carbide & Carbon Corporation. Physical and chemical properties, shipping data, and applications are included. This new technical bulletin (F-7906) is available on request from Carbide & Carbon Chemicals Company, 30 East 42nd street, New York 17.

Sharp & Dohme Splits Midwest District in Two

The Kansas City-St. Louis sales district of Sharp & Dohme, Inc., has been divided into two separate districts, it has been announced by C. B. Pyle, director of field operations of the Philadelphia pharmaceutical firm. Because of the rapid growth of company business in the Kansas City-St. Louis district, it has become necessary to divide the workload into two parts with a sales manager at both the Kansas City and St. Louis branch offices, Mr. Pyle explained.

At the same time, Mr. Pyle named E. F. Schwab, who has been serving as sales manager of the combined district, to the position of sales manager of the Kansas City district. Herman H. Hill, formerly sales supervisor in St. Louis, was named sales manager of the St. Louis district.

Under the new setup, the Kansas City district will service customers in Arkansas, Iowa, Kansas, Nebraska, Oklahoma and part of Missouri. The St. Louis district will service customers in Illinois, Indiana, Kentucky and the remaining area in Missouri.

Gen'l Biochemicals Issues Catalog

General Biochemicals, Inc., Chagrin Falls, Ohio, has issued a new revised catalog. The publication gives data on the concern's line of amino acids, vitamins, carbohydrates, nucleates, purines, pyrimidines, tetrazolium salts, enzymes, microbrological media and prepared biological test diets and special diet ingredients.

Trade Briefs

Dr. Joseph M. Fell has joined the medical division of E. R. Squibb & Sons, New York, as associate medical director in charge of veterinary medicine.

E. T. Nettel, partner of Kauders & Co., New York, has been awarded the title of Chevalier dans l'Ordre du Merite by the French government.

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Bids Wanted

Alcohol, 1,365 dms. alcohol CMA 5-gal. ethnol, 104 dms. alcohol, 54-gal., 315 dms. alcohol, isopropyl, 54-gal., Contracting Officer 2nd Coast Guard Dist., 230 Old Customhouse, St. Louis, Mo., inv. A-106, Apr. 11, 672 ¼-lb. bots. amyl alcohol, Armed Services Medical Procurement Agency, 84 Sands St., B'klyn 1, N. Y., inv. 2533N, Apr. 4; ethyl alcohol, Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 455, postponed from Mar. 26 to Apr. 8.

Ammonium hydroxide, 4,428 lbs. ammonia aqua, San Francisco Dist. Engineer, Corps of Engineers, 180 New Montgomery St., S. F., Calif., inv. ENG-878, Apr. 7.

Deoxidine, 1,300 gals. for purposes of finishing assembly bodies, Contracting Officer, Frankford Arsenal, Bridesburg, Phila 37, Pa., inv. 757, Apr. 9.

Drugs and Chemicals, Commanding Officer Chemical Corps Procurement Agency, Army Chemical Center, Md., 1,650 gals. acetone, 2,000 lbs. boric acid, 150 gals. alcohol, ethyl, 1,200 lbs. propyl alcohol, 50 lbs. liquid pyridin, inv. 409, Apr. 7; Dist Engineer, Phila. Dist., Corps of Engineers, 121 N. Broad St., P.O. Box 8629, Phila 1, Pa., 500 100-lb. dms. alum, aluminum sulphate commercial powder; 760 5-lb. cns. alum, ammonium, aluminum ammonium sulphate powder, 3,900 100-lb. containers of same, 2,500 100-lb. bgs. tamrin quebracho, powd., inv. ENG-255, Apr. 8; Armed Services Medical Procurement Agency, 84 Sands St., B'klyn 1, N. Y., 25,344 bots. acetylsalicylic acid tablets, 31,104 bots. aluminum hydroxide gel, dried, tablets, 912 bots. aminophylline, 102,192 bxs. pharmaceutical gelatin capsules, 936 bots. carbarsone tablets, 936 bots. choline dihydrogen citrate tablets, 515,232 bots. hexavitamin tablets, inv. 1275, Apr. 3; 1,728 1-oz. bots. amaranth, 14,400 pkgs. aromatic ammonia inhalant, 456 bots. arabinose, 5,904 1-pt. bots. belladonna tincture, 720 1-oz. ampules bromine, 960 bots. carmine, 672 ¼-lb. bots. henfoglobin, inv. 1264, Apr. 4; 900 bots. of 1,000 units dry powd. penicillinase, inv. 2546N, Apr. 7; 600,000 bots dry powd. streptomycin, inv. 2545N, Apr. 7; 273,700 bots. 1-gm. dihydrostreptomycin sulphate, inv. 2544N, Apr. 7; 1,152 ¼-lb. cont. ammonium bromide, 1,152 ¼-lb. bots. ammonium sulphamate, 1,824 ¼-lb. bots. ammonium sulphate, 96 ¼-lb. bots. asbestos, 1,704 1-lb. cns. bentonite, 1,300 1-lb. cns. precip. calcium carbonate, 24,192 ½-lb. bots. clearing cedar oil, inv. 1288, Apr. 7; 500,000 bots. procaine penicillin G, 300,000 units per mg., fortified with crystalline sodium or potassium penicillin G, 25,920 pkgs. diphtheria toxin, diagnostic, inv. 2548N, Apr. 7; 1,584 bots. salmonella diagnostic serum, inv. 2534N, Apr. 7; 6,336 bots. calcium mandelate tablets, 28,992 bots. dimenhydrinate tablets, inv. 1298, Apr. 8; 41,040 1-pt. bots. aluminum hydroxide gel, 27,648 bxs. aminophylline suppositories, inv. 1304, Apr. 9; 4,128 ¼-lb. bots. anhydrous dextrose, 20,320 bxs. dextrose injection, 6,500 bxs. dextrose and sodium chloride injection, inv. 1307, Apr. 9; 384 ¼-lb. bots. potassium chromate, 16,896 ¼-lb. bots. sodium hydroxide, 4,032 bots. methiodal sodium, inv. 1300, Apr. 9; Chief, Procurement Div., Supply Service, Veterans Adm., Veterans Adm. Bldg., Wash. 25, D. C., 3,024 bots. digitalis tablets, 8,640 bots. saccharin sodium tablets, 1,440 bots. thyroid tablets, 336 bots. triasyn B tablets, 7,776 bots. diphenylhydantoin sodium capsules, 2,928 bots. secobarbital sodium capsules, inv. A-105, Apr. 8.

Dyes 77,829 lbs. green, 53,444 lbs. auramine hydrochloride, 73,957 lbs. red dye, 26,584 lbs. 2-(4-dimethylaminophenyl AZO), New York Chem.Procurement Dist., 180 Varick St., N. Y. 14, N. Y., inv. 59, Apr. 17.

Fertilizer, 42,000 lbs. commercial, Fed. Supply Service, Purch. Div., Denver Fed. Center, Colo, inv. PG-560-3625, about Apr. 4.

Gases, as required during the fiscal year 1953, including carbon dioxide, cyclopropane, oxygen, nitrous oxide, acetylene, prest-o-lite, Contracting Officer, Veterans Adm. Hosp., 54th St. and 48th Ave., S., Minneapolis, Minn., inv. H-12, Apr. 17.

Insecticides, 2,529,000 aerosol, DDT and allethrin, 12-oz. dispensers, Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 504, Apr. 3; 250 gals. ester 2,4,D, Fort Benning, Ga., Purchasing and Contracting Div. Quartermaster, inv. 147, Apr. 17.

Naphthalene flakes, 5,296 lbs., Chief, Purch. Sect., Fed. Supply Service, Gen. Services Adm., 7th and D Sts., S.W., Wash. 25, D. C., inv., 2W-10272-R, Apr. 16.

Paint and allied chemicals, 400 gals. enamel air drying, glyceryl phthalate synth. resin enamel, Purch. Div., Gov. of the Dist. of Columbia, Rm. 4003, E. Adm. Bldg., 300 Indiana Ave., N.W., Wash. D. C., Div. of Sanitation, inv. 15400/2, Apr. 1; 200 gals. water resisting varnish, 200 gals. ready-mixed paint, Office of Dist. Engineer, Memphis Dist. Corps of Engineers, Memphis, Tenn., inv. CIVENG-86, May 1; Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa., 126,520 gals., cellulose nitrate lacquer thinner, 50,000 gals. toluol, inv. B-54,277, Apr. 8; 9,500 gals. enamel, inv. 155/15262 Q, Apr. 8; 10,100 gals. enamel, inv. 155/152364/Q, Apr. 7; 483,000 gals. pigment paste in oil, inv. MIPR R52 209 CSD3Q, Apr. 7; 1,000 gals. quick drying lusterless enamel, Contracting Officer, Frankford Arsenal, Bridesburg, Phila. 37, Pa., inv. 728, Apr. 4; 5,000 lbs. pigments, 300 gals. paint primer sealer, Fed. Supply Service, 250 Hudson St., N. Y. 13, N. Y., NY-3B-36513, about Apr. 7; Chief, Purch. Div., Fed. Supply Service, Gen. Services Adm., 5th & WJW Bldg., 1375 Euclid Ave., Cleve. 15, Ohio, 57 gals. paint drier, 1,656 gals. enamel, 773 1-gal. cns. linseed oil, 50 gals. concrete and masonry paint, 272 gals. rubber base paint, 50 gals. varnish base paint, 1,500 gals. paint, 2,435 gals. interior oil paint, 250 gals. primer-sealer paint, 250 gals. traffic paint, 100 gals. cold water paint, 250 gals. resin-base emulsion paint, 480 1-qt. cns. pigment-in-oil, 36 ½-pt. cns. of same, 3,500 lbs. pigment, paste-in-oil, 100 lbs. aluminum paste pigment for paint, 620 lbs. putty, 550 gals. paint thinner, 440 gals. turpentine, 300 1-gal. cns. varnish, 121 gals. shellac varnish, 100 gals. spar varnish, inv. CL-2427, Apr. 10; Chief, Purch. Div., Fed. Supply Service, Gen. Services Adm., U. S. Court House, Seattle 4, Wash., 88 1-qt. cns. gloss enamel, 60 1-lb. pkgs. animal glue, 20 1-gal. cns. fire-retardant paint, 15 5-gal. cns. of same, 12 5-gal. cns. varnish-base paint, 120 1-gal. cns. oil paint, 90 gals. red lead base paint, 36 gals. cold water paint, 30 1-qt. cns. pigment-in-oil, 36 1-lb. pkgs. lampblack pigment, 12 10-lb. cns. pigment for paint, aluminum paste, 100 25-lb. cns. putty, inv. SE-C-5209-1, Apr. 8.

Sodium phosphate, 130,000 lbs., monobasic, anhyd., for boiler water treatment, packed in 100-lb. moisture-proof fib. dms., San Francisco Dist. Engineer, Corps of Engineers, 130 New Montgomery St., S. F., Calif., inv. 834, Apr. 9.

Sodium thiosulphate, 100,000 lbs., photographic grade, Chief, Purch. Sect., Fed. Supply Service, Gen. Services Adm., 7th and D Sts. S.W., Wash. 25, D. C., inv. 2M-10266-R, Apr. 15.

DPA Authorizes Building

—Continued from page 4

ond project at Northgate, Colo., $602,676 applied for and 60 percent of $502,230 was granted.

Hydrofluoric acid—Nyotex Chemicals, Inc., Houston, Tex., $88,737 applied for, of which 40 percent was granted.

Hydrogen sulphide—Shell Oil Company, Deer Park, Tex., $86,500 applied for, of which 70 percent was granted.

Isobutane—Stanolind Oil & Gas Company, Grant County, Kans., $286,000 applied for, of which 90 percent was granted.

Isobutane and propane—Panhandle Eastern Pipe Line Company, Kansas City, Mo., $510,000 applied for, of which 55 percent was granted.

Lead chemicals—National Lead, Philadelphia, $106,422 applied for, of which 45 percent was granted.

Magnesium and various chemicals—Dow, Freeport, Tex., $625,000 applied for, of which 45 percent was granted.

Octyl alcohol—Esso Standard Oil Company, Baton Rouge, La., $477,000 applied for and 70 percent of $326,000 was granted.

Perchlorethylene—Diamond Alkali Company, Houston, Tex., $2,298,550 applied for and 50 percent of $2,276,550 was granted.

Petroleum sulphonates—L. Sonneborn Sons, Inc., Petrolia, Pa., $750,000 applied for and approval was given to 15 percent of $128,000, 50 percent of $273,000 and 65 percent of $349,000; Norton-Withers Chemical Company, Greensboro, N. C., $1,780,742 applied for and approval was given to 15 percent of $186,000, 45 percent of $353,314 and 65 percent of $1,236,428.

Phenol—Hercules Powder Company, Paulsboro, N J., $8,500,000 applied for and 50 percent of $8,300,000 was granted.

Phthalic anhydride—Koppers Company, Kobuta, Pa., $4,000,000 applied for, of which 50 percent was granted.

Polybutylene—Pan-Am Southern Corporation, Dorado, Ark., $250,000 applied for and 65 percent of $215,000 was granted.

Polyvinyl chloride film—Monsanto, Springfield, Mass., $2,685,000 applied for, of which 50 percent was granted.

Santocure—Monsanto, Nitro, W. Va., $485,600 applied for, of which 60 percent was granted.

Silicate white lead—National Lead, St. Louis, Mo., $150,000 applied for, of which 45 percent was granted.

Sulphonates—Shell Oil, Martinez, Calif., $476,000 applied for and approval was given to 40 percent of $62,000 and 65 percent of $414,000.

Sulphur—Freeport Sulphur Company, Plaquemines Parish, La., $13,325,000 applied for, of which 70 percent was granted; Union Oil Company of California, Wilmington, Calif., $450,000 applied for and approval was given to 45 percent of $34,000 and 70 percent of $416,000; a second project at the same location involving also production of ammonium sulphate and fuel oil, $750,000 applied for and approval was given to 45 percent of $70,000 and 70 percent of $679,200.

Sulphuric acid—Monsanto and Tidewater Associated Oil Company (a joint venture), Avon, Calif., $2,050,000 applied for, of which 35 percent was granted; American Zinc Company of Illinois, Fairmont City, Ill., $359,631 applied for, of which 70 percent was granted.

Thiofide—Monsanto, Nitro, W. Va., $106,200 applied for, of which 60 percent was granted.

Titanium dioxide—American Cyanamid Company, Savannah, Ga., $13,875,000 applied for, of which 45 percent was granted.

Tolylene diisocyanate—Monsanto, Anniston, Ala., $211,000 applied for, of which 70 percent was granted.

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Named for Whitney Award

Edward Spease, former dean of the School of Pharmacy at Western Reserve University, Cleveland, Ohio, has been named to receive the 1952 H. A. K. Whitney lecture award by the Michigan Society of Hospital Pharmacists. The award, established in honor of the first chairman of the American Society of Hospital Pharmacists, is presented annually to a person who has made outstanding contributions to hospital pharmacy. Presentation of the award to Mr. Spease will be made May 1 at a banquet at the Henry Ford Hospital, Detroit, Mich.

Oliver Joins Blue Line Co.

Horton H. Oliver, until recently St. Louis, Mo., branch manager and western sales manager of Tilden Company, has joined the sales organization of the Blue Line Chemical Company, St. Louis. When Tilden recently moved its western branch office to Tennessee, Mr. Oliver resigned and decided to remain in St. Louis. His new duties with Blue Line will be in connection with the sales promotion of the company's line of pharmaceutical specialties in a sales expansion program that will include new territories.

US Revenue Returns Increased During Jan.

Collections of internal revenue during January totaled $4,813,109,741.45, as compared with $4,589,290,154.60 in the corresponding month of 1950, according to the Bureau of Internal Revenue of the Treasury Department. Among the collections reported by the bureau were the following:—

	January 1952	January 1951
Coconut and other vegetable oils, processed	$1,183,881.71	$938,971.51
Distilled spirits, domestic, excise tax	89,030,247.69	198,417,924.65
Distilled spirits, imported, excise tax	11,905,176.05	13,218,196.24
Gasoline, including floor tax	60,259,597.78	43,699,572.79
Lubricating oils	10,312,934.82	10,835,432.45
Matches	563,606.10	507,133.87
Narcotics, including marihuana and special taxes	61,175.32	40,003.73
Oleomargarine, including special taxes	*	1,931.78
Silver bullion sales or transfers, stamp tax	737.76	13,646.06
Sugar	5,439,766.22	5,654,915.54
Toilet preparations, excise tax	11,547,853.05	12,255,363.73
Transportation of oil by pipeline	2,685,835.10	1,919,111.54

* Included in an overall classification titled, "all other, including repealed taxes not listed above," which, for January, was reported at $33,868.76.

Wrisley Co. Names Two

Two changes in personnel have been announced by George A. Wrisley, jr., general sales manager of the Allen B. Wrisley Company of Chicago. O. L. Whitworth, formerly of Liggett & Meyers, has replaced Jack Breit as Texas sales representative. Mr. Breit has retired to his farm in Missouri. Roy Williams, formerly with Yardley of London, has replaced Curt Neely, who recently resigned, as Wrisley's southeastern sales representative.

Sharp & Dohme Grants to 3

Three Sharp & Dohme, Inc., financial grants for medical research totaling $8,100 have been announced by Dr. William P. Boger, medical director. A $2,500 grant was made to the Foundation for research in Bronchial Asthma and Related Diseases, Boston. Another in the amount of $2,600, was awarded to the University of Utah. The Newark Clinical Group Research Foundation, Newark, N. J., is the recipient of the third grant of $3,000.

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MCA Attacks Federal Industrial Safety Curbs

—Continued from page 3

been making excellent progress in recent years toward improved safety measures and an ever-increasing number of companies have been instituting comprehensive safety programs of their own. The record in most states clearly indicates that the objectives of this bill are progressively in the process of accomplishment.

Resultant Confusion Claimed

"2. Federal control on top of state control will result in confusing complexity of rules and overlapping jurisdiction. According to S.2325, the state laws will continue to apply, unless inconsistent with the federal law," the association continued. "The result is that two sets of rules must be obeyed, except that to the extent of inconsistency, one must be obeyed and the other ignored. Industry should not be faced with intricate legal problems of interpretation in a field where clear-cut and definite rules are extremely important. Unnecessary complexity is involved in complying with rules issued by two separate agencies, keeping abreast of directions and interpretations from two sources on different laws, and dealing with inspectors and officials of both the state and federal governments on the same subject matter.

"Safety is, in all its essentials, a matter of purely local concern and, therefore, is a matter wholly within the province of the states. It is in the public interest that this should be so, for it is manifestly impossible for the federal government to establish rules and regulations on a nationwide basis that could be adapted to varying local conditions in industries throughout the United States. On the other hand, the state-created agencies, armed with intimate knowledge of local conditions and problems, are in a much better position to prescribe rules and regulations covering industries within their jurisdiction.

Single Safety Pattern

"No safety program can be devised which will apply effectively to all situations or serve the needs of all the individual plants or factories within a particular industry," MCA pointed out. "There is no single pattern for companies engaged in any one field. Products, production methods and working conditions and environment are all apt to vary widely from plant to plant. Moreover, one company may be a part of several different industries.

"Federal control of this sort would to a considerable extent vitiate the influence and effectiveness of state and local labor officials and undermine the spirit of cooperation they have built up over the years with both management and labor. It would almost certainly diminish the initiative of those officials.

"3. Other means of federal promotion and maintenance of industry safety are available without subsidization.—Control of industrial safety should be left to the state governments who can adapt measures to local needs and conditions without the aid of federal funds and the obligations entailed therewith," it was stated. "If the federal government desires to promote and maintain industrial safety throughout the United States, it can do so by encouraging the states to voluntarily adopt more strict or more up-to-date rules. It can furnish technical data and can serve as a clearing house of information and experience not only to the state agencies, but to the industries themselves. So far as we know, the states have not failed to cooperate in any respect with the federal government in promoting industrial safety.

Federal Subsidization Undesirable

"4. Federal Subsidization of State Agencies Undesirable.—S. 2325 provides that the Secretary of Labor may pay or reimburse state and local agencies and their employees for services rendered. S. 2714 permits a state to share in the division of federal funds if such state enacts a program, or already has a program which meets federal standards as set by the Secretary of Labor. If the state fails to meet the secretary's standards, it cannot receive federal funds.

"We are opposed to the use of federal funds in either case," MCA said in conclusion. "In addition to the specific objections expressed above, we think that both methods are undesirable, since they open the way to serious misuse, pressuring of state agencies, and discrimination against individual states or state agencies."

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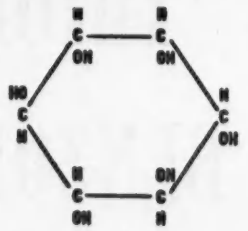

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Obituaries

A.R. Bostock

A. R. Bostock, branch house superintendent of Parke, Davis & Co., Detroit, Mich., died March 24 in that city. He was fifty-eight years old.

Mr. Bostock joined Parke, Davis in 1913. He became manager of the finishing department, assistant superintendent and then, in 1929, superintendent of stock finishing and traffic. Two years later, the printing and paper box department also were placed under his supervision. He became branch house superintendent in 1945, in which post he had charge of improvements and new construction of the company's twenty-six branches in the United States and four in Canada.

Andrew S. Butler

Andrew S. Butler, president of McDougall-Butler Company, Buffalo, N. Y., died March 25 in that city. He was seventy-five.

Mr. Butler came to Buffalo in 1904 as office manager for Pratt & Lambert, Inc. From 1910 until 1919, he served as president of Dorries & Co. He had been president of McDougall-Butler since 1919. He was a member of the Fifty-Year Club of the National Paint, Varnish & Lacquer Association.

Robert C. Charlton

Robert C. Charlton, chief chemist and director of chemical control of the American Agricultural Chemical Company, New York, died March 25 in Elizabeth, N. J. He was fifty-four years of age.

Mr. Charlton had been associated with American Agricultural thirty-two years, having joined the company as a chemist at its Baltimore, Md., plant in 1920. In 1939 he moved to the company's Cartaret, N. J., plant as a chemist. In 1942 he came to the New York office, becoming assistant manager of chemical production and director of chemical control in 1944. In 1947, Mr. Charlton became chief chemist and director of chemical control, with general supervision over quality control in all American Agricultural plants.

Harvey N. Dauler

Harvey N. Dauler, chairman of the board of directors of the Neville Company, Neville Island, Pittsburgh, Pa., died March 26 in that city. He was seventy-three years of age.

Mr. Dauler, who founded the coal chemicals concern, served as its president until five or six years ago, at which time he assumed the board chairmanship. In addition to its Neville Island installation, the company also has a plant at Anaheim, Calif.

Wingate M. Anderson, retired president of the Standard Oil Company of Brazil, died March 22 at his home in Sharon, Conn. He was fifty-seven years of age. Mr. Anderson headed Brazil Standard, an affiliate of Standard Oil Company (New Jersey), from 1936 until he retired in 1950.

Charles W. Cubberley, supervisor of warehouse and shipping in the Jersey City, N. J., plant of Colgate-Palmolive-Peet Company, was found dead March 25 in a Kansas City, Kan., hotel room. He was sixty. Mr. Cubberley had worked for Colgate for forty-six years.

Howard H. Dawson, for a quarter of a century vice-president of the Ohio Chemical Manufacturing Company, Cleveland, Ohio, died March 21 in that city. His age was sixty-seven. Mr. Dawson retired from the company in 1942.

Marion D. Harburgh, president of the Lake Superior Iron Ore Association and nationally-known ore authority, died March 21 at his home in Hudson, Ohio. He was sixty years old.

Herbert A. Hughes, West Coast representative for Wm. J. Stange Company, Chicago, died March 15, three days before his planned retirement from the company. He was fifty-nine years old.

Horace L. Hutchison, operator of the Hutchison Pest Control Company, Pueblo, Col., died there March 2.

Louis W. Krewer, of Krewer & Yunker, Brooklyn, N. Y., died March 23 at his home in that borough. He was sixty-six. Mr. Krewer represented eastern refiners during the past twenty-five years. Previously he served as manager of the Chicago office of the former American Cotton Oil Company.

Howard Marshutz, supervisor of waterproof sales for Bemis Bro. Bag Company, St. Louis, Mo., since 1943, died March 10. He was fifty-four years old. Mr. Marshutz joined Bemis in 1916 as a salesman for the St. Louis plant and, except for two years of service in the US Navy during World War I, was with the company until his death.

Henry I. Minich, sr., one-time vice-president of Johnson & Johnson, New Brunswick, N. J., died March 22 in Tarrytown, N. Y. He was sixty-two. At the time of his death, Mr. Minich was president of the Tensolite Corporation, Tarrytown, manufacturers of plastic insulation for electrically-heated flying suits.

Fred L. Meyer, head of J. M. Meyer & Sons, Philadelphia, died March 25 in Wyncote, Pa.

George F. Mitchell, president of the American Gas Association, died March 26 in Chicago. Before becoming president of the gas association last October, Mr. Mitchell had been president of the Peoples Gas Light & Coke Company, Chicago.

Walter J. Montfort, retired shipping superintendent for E. I. duPont de Nemours & Co., Wilmington, Del., died March 25 in Monroe, N. Y. He was seventy-two.

Lewis G. Murray-Kidd, who represented Shell Oil Company for many years in China, died March 14 at his home in Redlands, Calif. He was fifty-six.

George G. Weinert, physicist and mechanical engineer with Ciba States, Ltd., Toms River, N. J., died March 22 in Lakewood, N. J. He was fifty-two years of age.

Sylvan E. Weil, vice-president of Hickrill Chemical Research Foundation, established by Mr. Weil and his wife, Dr. Ruth Alice Norman Weil, for fundamental chemical research in medicine, died March 25 in Katonah, N. Y. He was fifty-nine years old.

Bust of Hippocrates (now in the Penick collection) made over 150 years ago by Josiah Wedgwood, England's great master of the potter's art.

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*Leclerc, quoted in "Chronicles of Pharmacy" by A. C. Wootton, Macmillan & Co., Ltd., London, 1910.

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Botanical Drugs, Spices, Gums

After eight weeks during which the botanical drugs index number failed to change, a rise of 0.6 took place last week and was traceable not to spot demand but to a change in replacement costs and market conditions. Drug items were generally steady in price; many were firmer; and a few were stronger, usually because of replacement conditions. Condimental botanicals in the main showed price decline, exceptions being China cassia and Danish yellow mustard seed, items which advanced in price. Lack of demand made a competitive market and not only brought numerous spot prices down but made them subject to further shading.

Signs of ginger root becoming steadier increased. Cochin root at the origin rose and sellers of African at the origin rejected bids and warned that low prices could cause producers to neglect the next crop. Jamaican root prices continued to take a beating.

Aconite root in Europe advanced almost sensationally and caused spot sellers to review their price position after which they advanced values. Jalap root also cost more in Mexico, was advanced on spot, and whole jalap in normal form was hard to get according to some informants. Peru balsam was reduced but copaiba was advanced when the recent low seller withdrew previously minimum quotations.

Green cardamom from Ceylon broke sharply and Alleppey was sympathetically lower. Increase in spot stocks of clove led to shading of prices but not to real weakness. Poppy seed was weak and under pressure in a competitive but dull market. Alleppey and Madras turmeric roots were lower but signs pointed to present prices being close to bottom. Mexican vanilla bean prices yielded further ground.

Balsams

Copaiba—The low seller in the previous week withdrew prices and replaced the quotation by one 20c. higher. Other quarters, however, reduced quotations and the net result of price shifting was a market 10c. higher at $1.55 to $1.65 per pound.

Peru—Local competition put the market down to the basis of $1.60 to $2.15 per pound, ranging thus according to seller and quantity.

Tolu—Suppliers recently quoting the top of the price range reduced quotations to $5.65 per pound. The minimum spot price remained at $5 in a market more competitive and unsettled than primary market conditions seemed to suggest.

Flowers

Orange Peel—Price stability prevailed despite the absence of more than limited demand for top quality merchandise. Stocks seemed to be in firm hands and price shading was not noted.

Sassafras—Spring business was well underway and a steady if not large movement reduced primary market stocks of superior quality bark. Trading was done at firm, well maintained prices.

Beans

Vanilla—Spot quotations on Mexican beans were lowered to $4.60 to $5.10 per pound for whole and $3.50 to $3.75 for cuts. New crop cuts now reaching this market were reported good in quality. Bourbons held openly at $2.90 to $3.25 per pound but it was admitted that the lower figure could be shaded, although, it was asserted, not on prime quality merchandise in this market. However, it was clear that competition was still in control because of the rather low volume of trade.

Flowers

Clover—Carryover of domestic flowers will not be large enough materially to affect buying prices for the 1952 crop. At least, that was the suggestion last week. Business on spot was hand-to-mouth last week at reasonable steady quotations.

Saffron—Jobbing orders for Spanish flowers were sufficient to hold local quotations to a very steady basis. Also, replacement cost of Mexican flowers tended to support spot asking prices in steady position.

Gums

Locustbean—Trade was slow. Prices remained at 32c. to 35c. per pound for moderate sized quantities but buyers with large requirements to cover stood an excellent chance of buying for less money because of the generally inactive conditions.

Sandarac—Limited quantities were still priced at $3.20 to $4 per pound, but the very height of said prices was enough to curb consumer undertakings. Should stocks in Casablanca increase in the event of a more liberal production policy being adopted by the French Moroccan government, shipment prices could work lower and would probably be reflected more or less promptly in local circles when a reserve of lower cost gum had been created.

Herbs and Leaves

Belladonna—Jobbing business showed a slight gain but, for the most part, only immediate needs were taken by buyers. Prices remained very steady, ranging 40c. to 45c. per pound as to seller.

Catnip—Trade was at a standstill. Buyers in quantity held stocks sufficient for their needs between now and new crop, according to some sellers. Interest will return to the market when new crop proposals are possible.

Laurel—Prices underwent no further decline but absence of more than jobbing demand kept the market subject to keen competition through which conditions favored buyers more than sellers when it came to prices actually to be paid.

Marjoram—French material sold down sharply most of last week and at the end of the period quotations ranged weakly at 24c. to 25c. per pound. Other kinds of marjoram held unchanged.

Peppermint—No price weakness in foreign parts was noted last week. Neither was there any unsettlement in spot market values despite the lack of demand in excess of immediate needs.

Sage—Prices held steady, especially with respect to the Dalmatian article after the rather sharp decline in the previous period. Th season for major consumption was about at an end and only jobbing

Market Trends

Prices Advanced

Drugs

Aconite root, 10c. per lb.
Copaiba balsam, 10c. per lb.
Ginger root, Cochin, futures, 2c. per lb.
Jalap root, whole, 8c. per lb.
powder, 7c. per lb.

Other Articles

Cassia, China, Honan-Yunnan, scraped 1c. per lb.
unscraped, 1½c. per lb.
Mustard seed, Danish yellow, ½c. per lb.

Prices Reduced

Drugs

Ginger root, Jamaica, No. 3, spot, 4c. per lb.
futures, 1c. per lb.
Nigerian, split, spot, 2c. per lb.
futures, 1c. per lb.
Peru balsam, 10c. per lb.

Other Articles

Caraway seed, Dutch, ½c. per lb.
Cardamom, green, Alleppey, 25c. per lb.
Ceylon, 25c. per lb.
Cassia, Batavia, longstick, 1c. per lb.
Cinnamon, Ceylon, 1c. per lb.
Clove, Madagascar, 2c. per lb.
Zanzibar, 1c. per lb.
Coriander seed, Argentine, ½c. per lb.
Mace, Siauw No. 1, 2c. per lb.
Marjoram, French, 4c. per lb.
Mustard seed, Dutch yellow, 1c. per lb.
Nutmeg, East Indian, 2c. per lb.
splits, 2c. per lb.
West Indian, 2c. per lb.
Pepper, black, spot, 11c. per lb.
red, Nigerian capsicums, old crop, 2c. per lb.
white, spot, 5c. per lb.
Pimento, Mexican, ¼c. per lb.
Poppy seed, Argentine, ½c. per lb.
Dutch, ¼c. per lb.
Polish, ½c. per lb.
Turkish, ½c. per lb.
Thyme, Spanish, ¼c. per lb.
Turmeric root, Alleppey, spot, 2½c. per lb.
Madras, 1c. per lb.
Vanilla beans, Mexicans, whole, 15c. per lb.
cuts, 25c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
220.4	219.8	219.8	181.9	231.0

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended Mar. 21

New York

Chillies, 183 bags: filthy.
Cloves, 11 lots, 1,776 bags: filthy.
Coriander seed, 6 lots, 1,526 bags: filthy.
Mustard seed, 32 bags: filthy.
Nutmegs, 3 lots, 252 bags: wormy and moldy.
Pimento, 2 lots, 200 bags: filthy.

Philadelphia

Caraway seed, 1 bag: sweepings (filthy).

For Late Market Developments, See Page 4

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CASCARA SAGRADA, U.S.P. XIV
GENTIAN, N.F. IX
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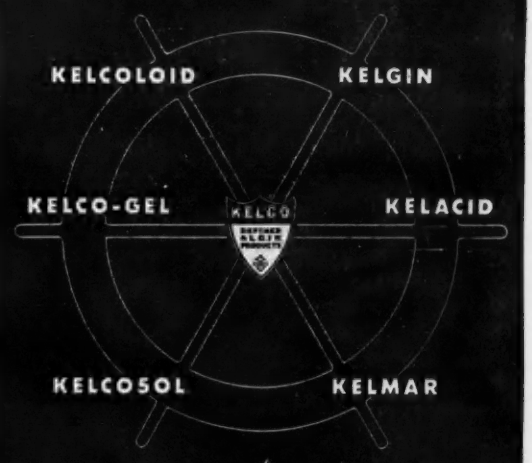

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business was expected for some time to come.

Thyme—Spanish material was shaded once again, ending last week at 7¾c. to 8c. per pound under competition. French leaves remained steady at 21c. to 22½c. as to quality.

Miscellaneous

Ergot—Little unsold stock existed on spot and most of the available material was held in reserve for needs of regular customers. Pricewise, quotations were always subject to confirmation. At the origins, they were still too high to encourage major restocking in this market.

Papain—A firm to strong market prevailed. Though fair quantities have reached the spot in recent weeks, much of the arriving merchandise was committed to buyers some time ago. Furthermore, replacement costs tended to give complete support to the well maintained spot quotations.

Roots

Aconite—Cables from Europe reported a very sharp rise in replacement prices and caused spot sellers to revise their quotations upward. Some buying of spot lots recently quoted lower than the present replacement prices in Europe took most "cheap" root out of the market. The range last week was 55c. to 60c. per pound as to seller.

Dandelion—The article had not appeared often in spot transactions of late but some fair business was booked last week on the basis of 45c. to 50c. per pound for good quality root.

Galangal—A firm market prevailed under the influence of some gain in local selling. Stocks were not readily replaceable and will not be until normal commerce with China can be resumed. Most offerings of replacement root comes now from secondary markets.

Jalap—Spot quotations were higher at 50c. to 55c. per pound for whole and 55c. to 60c. for powder. Whole root was said to be in limited stock; in part because of the numerous shipments of broken material from the Mexican origins.

Rhubarb—Mighty little Chinese root was unengaged on spot and most transactions took place in root from India because of the fact that replacement of Chinese root direct wifh the primary market was impossible and when Chinese root bought in a secondary market is obtainable only at premium prices.

Turmeric—Alleppey root on spot was down to 9½c. to 10c. per pound, compared with a February-March steamer price of 8¼c. However, news last week was that Alleppey root at the origin had turned firmer. Madras root was lowered to 9c. to 9½c.

Seeds

Anise—Star anise apparently disappeared from spot stocks when the last holder to offer openly withdrew prices entirely. No other development in the group was noted.

Caraway — Quotations weakened and ended last week lower at 11c. to 11½c. per pound, a price developed by sellers competing for business that was not too large in size.

Cardamom—A sharp drop came in prices on green seed, either Alleppey of Ceylon material becoming available at $2.10 to $2.15 per pound. Bleached and decorticated material failed of new price developments.

Celery—Prices were steady. Declines seemed at an end and a steadier market undertone was reported in all quarters.

Coriander—Argentina seed sold down to the basis of 8½c. to 9c. Czech and Moroccan seed held steady. None was in much demand last week.

Mustard—Danish yellow was higher at 11½c. to 12c. per pound. Dutch yellow was shaded to 11c. to 11½c. Domestic seed remained unchanged. An experiment in mustard seed growing may take place in Wisconsin next Summer.

Poppy—Prices were weak and, except for Czech seed, were lower. Argentine seed became 13½c. to 13¾c. per pound; Dutch, 14c. to 14½c.; Polish, 13¾c. to 14c.; Turkish, 13½c. to 13¾c. Czech seed remained at 14c. to 14½c.

Spices

Cassia—Batavia longstick declined to the basis of 16c. to 17c. per pound. Honan-Yunnan scraped rolls were higher and nominal at 28c.; unscraped, 27c. to 27½c. Saigons failed to change.

Cinnamon, No. 2 Ceylon spice dropped back to the basis of 25c. to 26c. per pound because of competition for the little business current on spot during the past week.

Clove—Recent articals in a limited way replenished the virtually bare spot market and local offerings were made at lower prices for prompt delivery. Madagascar spice, 80c. to 82c. per pound. Zanzibar spice, 83c. to 85c.

Ginger—Signs of a strengthening of replacement prices came in African root; reports indicated that low prices would probably bring a neglect of new crop production. Cochin root at the origin was also firmer and the March-April steamer price on spot was raised to 17c. to 18c. No. 3 Jamaica root on spot was down to 32c. to 33c. and an offering of root to come on a March-April steamer was cheaper at 28c. to 29c. Split Nigerian root on spot was shaded to 28c. to 29c. and March shipment, 15c. to 16c., was down.

Nutmegs—Prices continued to weaken and decline. East Indian whole nutmegs on spot became available at 36c. to 37c. per pound and splits were reduced to 35c. to 36c. West Indian nutmegs were down rather sharply to 32c. to 33c.

Pepper—Shipment prices rose at times last week, indicating a revival of a firmer undertone in India after a considerable period during which prices dropped when sellers were forced to liquidate some stocks to meet a financial crisis. Spot business in black pepper was done between $1.25 and $1.35 per pound during much of the week. Spot and nearby positions were available only in small quantities and then only occasionally. Released pepper was taken fairly promptly under covering by those short of their March commitments. Such short position had to be liquidated by March 27. White pepper sold under $2 per pound for a time since October, 1929. The price last week was $1.95. Old crop Nigerian capsicums were shaded to 18c. but 30c. was wanted for new crop goods.

Friday prices on black pepper were as follows:—Spot, $1.25 per pound; March shipment, $1.07; April shipment, $1.02; May shipment, $1.

Pimento—Mexican allspice was shaded ¼c. to the basis of 15½c. to 15¾c. per pound. Guatemalan and Jamaican spice remained unchanged at very steady prices.

Los Angeles Botanical Market

Los Angeles, March 26.—Following were spot prices, per pound, f.o.b. Los Angeles:—

Anise, Chinese, star, 68c. Cassia, China, Honan, Yunnan, scraped, 26c.; broken, 24c.; unscraped, 23c; broken, 22c.; Saigon, broken, 24½c. Celery seed, French, 34c.; Indian, 26c. Cinnamon, Ceylon, No. 1, 27c.; No. 2, 25c.; No 0000, 39c. Clove, Madagascar, 90c.; Zanzibar, 90c. Cumin seed, Indian, 18c.; Iranian, 21c. Marjoram, French, 34c. Mustard seed, California brown, 12c.; Montana yellow, 11½c. Nutmeg, East India, 39c.; West India, 35c. Pepper, black, $1.40; red, Haitian, 48c.; white, $1.80. Poppy seed, Dutch, 14c. Sage, Dalmatian, 42c. Savory, French, 19c. Sweet basil, 38c. Thyme, French, 24c.

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Essential Oils, Other Aromatics

Last week saw a noticeable pick up in buying interest in the essential oils and aromatic chemicals market. While trading was far from brisk, it showed signs of improvement with the coming of spring and was considerably better than it has been since the beginning of the year. Supplies of most oils continued to be good and the majority of materials were priced below ceiling levels, which made for a market favorable to the consumer. Except for a rather sharp advance in the price of Bourbon geranium oil and slight upward adjustments in the prices of grapefruit and peppermint oils, the trend of prices was downward. Reductions occurred in the quotations for coriander, eucalyptus, Californian lemon, East Indian nutmeg, artificial sassafras and wormseed oils. Citral moved down, influenced by the easy lemongrass oil market and most citronella oil derivatives were further reduced. These included citronellol, geraniol, geranyl acetate and hydroxycitronellal. All were at price levels which were lower than any since World War II. Because of the advance of geranium oil, the price index jumped higher by 6.7 points to 191.2.

The sudden rise in the price of Bourbon geranium oil was based upon the shipping price at the origin. Observers reported that shippers have taken a firmer view of the market following the pick up in demand, which came when prices moved down. With the advance in the price, however, a noticeable drop in sales occurred. It has been reported by dealers that this has been the trend in recent months. Those items which have been offered at favorable prices have tended to attract buyers. When the market again turns firm, buying interest decreases. Among the other oils which have attracted interest because of lower market quotations were nutmeg, sandalwood, citronella, artificial sassafras and lemongrass oils.

Market Trends

Prices Advanced

Geranium oil, Bourbon, $2.65 per lb.
Grapefruit oil, 20c. per lb.
Peppermint oil, natural, 25c. per lb.
redistilled, 25c. per lb.

Prices Reduced

Citral, 50c. per lb.
Citronellol, 15c. per lb.
Coriander oil, 50c. per lb.
Eucalyptus oil, 80-85%, 15c. per lb.
Geraniol, extra, 25c. per lb.
Geranyl acetate, 30c. per lb.
Hydroxycitronellal, 45c. per lb.
Lemon oil, California, 15c. per lb.
Nutmeg oil, East Indian, 20c. per lb.
Sassafras oil, artificial, 5c. per lb.
Wormseed oil, 15c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
191.2	184.5	184.5	132.7	228.4

(For Current Prices see Page 9)

Essential Oils

Anise—Some tightening has become evident in the spot market supply of this material, it was reported. Since replacements were virtually cut off from China, there was small chance of dealers replacing the material which was being sold. Buying has not been very active, but a steady call was noted. Prices remained unchanged at $1.60 to $2.20 per pound.

Bergamot—Reports of some small offerings from Italy have been received. It was noted, however, that the quantities offered were too small to make any appreciable change in the tight spot situation. Quotations for the limited spot stocks remained quite high at $14.70 to $16 per pound. Artificial oil was still offered rather freely at $2.90 to $6 per pound and found wide interest among consumers.

Bois de Rose—Some offers continued to be made at the low level of $4 to $4.25 per pound, but the majority of dealers have placed the oil higher at $4.40 to $4.75 per pound in keeping with the strict price floor held by the Brazilian government. Spot stocks were comfortable and a good demand was reported.

Citronella—While the downward trend in prices, particularly those for the Java-type oil, have apparently been checked, the oils continued to be extremely weak with large quantities being offered at prices of 75c. to $1.75 a pound Ceylon and 70c. to $1.50 for Java-type oils. Some dealers have stopped offering the oil at these low prices and have found it more practical to use their stocks for the formulation of its important aromatic derivatives, which were presently being offered at very attractive prices.

Clove—The supply situation of this important oil continued to present a grave problem to dealers and consumers. Price quotations were largely moninal at $5 per pound or higher, reflecting the extremely high cost of clove buds. A new price ruling was pending which would allow an increase in the market price of the oil in keeping with the higher cost of raw materials. Many customary distillers were holding off on production and offerings until a decision might be reached on future pricing. There has been some relief to consumers in the form of the clove leaf oil, which has been coming to the market in good volume at prices for below the bud oil. While less desirable, this latter material could be substituted in many cases.

Coriander—One supplier of this Russian oil was able to offer it at a slightly lower price. It could be had at $23.50 per pound, while it continued to range to $28.50 a pound. Spot stocks of the oil were comfortable, particularly because of a limited interest on the part of consumers. Replacements were not too easy to obtain, but there was little need for them at this time.

Dillweed—While a pickup in buying was expected within the next month or so, business transactions in this market remained light. Prices continued at the low level of $3.75 to $4.50 per pound. Stocks remained ample because of the large carryover from last year. It was believed that supplies will be adequate to cover the requirements of consumers until the next crop becomes ready for market.

Eucalyptus—With the end of the active consuming season, remaining stocks of this oil were eased to some extent. The rectified oil followed the 70-75 percent grade in a slight lowering of the minimum quotation. It dropped 15c. per pound to $1.10 a pound. The demand for the oil was very light and was expected to continue at that level until next fall. Some recent offers have come from Australia for replacements, but dealers claimed prices to be high.

Geranium—A very definite upswing was evident in the pricing of the Bourbon oil. The lowest quotation reported last week stood at $15 per pound, an increase of $2.65 per pound. It was reported that the volume of sales was very good when prices were lower, but that the increase in cost has caused a tapering off of buying in the past week. Spot supplies continued to be good, but there was a definite firming of prices at the origin. The less plentiful Algerian oil was fairly stable at prices of $16 to $26 per pound.

Grapefruit—The lowest quotation reported for this scarce citrous oil last week was $2.25 per pound, an advance of 20c. per pound. Depending upon supplier, prices ranged to $2.60 per pound. There was little to be had from the source and the market was expected to remain tight and strong throughout the active season.

Lavender—This remained an untroubled market. There was enough material available on the spot market to take care of the needs of consumers and prices were rather favorable. The 30-32 percent ester grade was quoted between $3.75 and $5.45 a pound. It has been reported that prices quoted in France for replacements were presently higher than the resale price on the local market. However, most dealers held large stocks and had little need to buy new material at the higher costs. Spike oil remained quite stable, in keeping with the floor price in effect in Spain. Stocks were ample and prices ranged from $1.60 to $2.95 per pound.

Lemon—It was possible to buy Californian oil at $5.85 per pound, some 15c. per pound below the last previous minimum. Quotations ranged to $6 per pound, depending upon brand. Supplies were quite limited in the face of the stepped up demand and observers believed that the condition would continue throughout the active consuming season. Little trading was being done in the imported Italian oil, which was priced quite high and was available in small quantities only.

Lemongrass—The downward trend of prices of this oil seemed to have been halted. While prices have not risen again, they have stabilized to some extent. The minimum quotation remained at $1.50 per pound, with most quotations ranging between $1.75 and $3.05 per pound. Supplies were large and replacements could be had without difficulty, although the shipping price was said to be somewhat

For Late Market Developments, See Page 4

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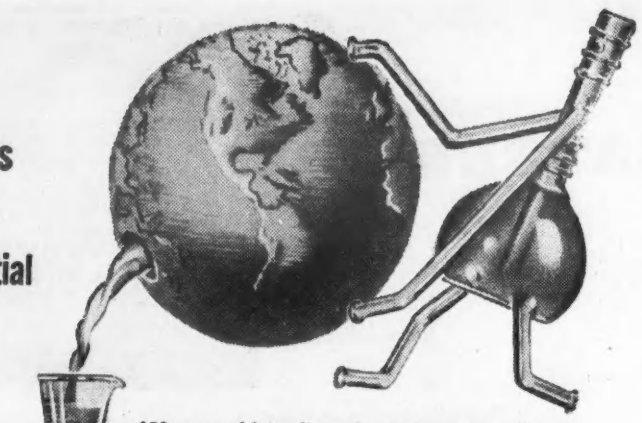

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higher than it was last month. A fairly good demand has been reported.

Nutmeg—The price of East Indian oil was down an additional 20c. per pound last week to a minimum of $4 per pound. The reduction reflected the easy spice market. Supplies were easily obtainable and spot stocks were comfortable. West Indian oil displayed more stability, although it, too, was fairly easy at $3.75 to $4.75 per pound. At the more attractive prices, dealers reported a rather brisk demand from consumers.

Ocotea Cymbarum—While this market remained steady at the origin because of the Brazilian price floor, the spot market has shown some ease. It was believed by observers that this was the result of the weakness of such competitive oils as artificial sassafras and camphor oils. The spot market ranged from 72c. to $1.10 a pound, most offers being close to the low end of the price scale.

Orange—Although there have been rumors of this market tightening, dealers continued to report adequate spot stocks available at prices which have remained quite steady. Both Floridian and Californian oils were to be had at prices ranging upward from $1.75 per pound. The former oil ranged to $2.25 and the latter to $2.75 per pound, according to producer. Buying interest has picked up considerably, but there continued to be enough oil to cover all requirements.

Peppermint—The minimum quotation of this oil has shown some additional strength, althour the market, in general, remained quite steady. The natural oil was priced from $7.25 to $7.85 per pound and the redistilled ranged from $7.75 to $8.30 a pound. Supplies, while not large, were sufficient to meet the needs of consumers. Only routine business was done in the material.

Rosemary—The market appeared to be quite steady during the past week. Prices were rather favorable to the consumer and stocks were ample on the spot market. Reports from Spain indicated that there were large quantities of material which shippers were anxious to sell, but the price floor kept them from meeting the bids of buyers.

Sandalwood—Price quotations continued to be rather easy, ranging from a low of $9.75 to $11.75 per pound. Spot stocks were ample and sales were reported to be large, although it was said that they came in spurts.

Sassafras—The artificial oil, camphor S. G. 1.070, was reported to be quite plentiful at very easy prices. The minimum quotation was decreased 5c. per pound, while other quotations ranged to 85c. There were good offerings from Japan of replacements at attractive prices. The demand for this lower-priced oil has been quite good. The domestic natural oil, on the other hand, has been somewhat stronger in recent weeks. Distillers were taking a firmer view of prices, which they attributed to the higher cost of production. Quotations for that material stood at $2 to $2.20 per pound.

Spearmint—From all indications, this market was expected to continue to be firm and stocks tight. There appeared to be little material still unsold and shippers maintained a strong price for replacements. On spot, there were limited quantities available at prices of $7.50 to $8.75 per pound.

Wormseed—One supplier was able to offer this tight oil at $7.65 per pound. This was 15c. per pound lower than the previous minimum. In other quarters, prices ranged to $8.60 per pound. The small remaining stocks still held by distillers were priced quite high, according to dealers. The next crop will not be ready for market until next October or November. Until that time, it was expected that the material would grow quite a bit tighter and prices will probably go still higher.

Aromatic Chemicals

Benzophenone—There was a plentiful supply of this chemical available to consumers at prices which ranged from $1.40 to $1.70 per pound for the refined grade. Production could be accomplished without difficulty as basic materials were easily obtainable. A normal volume of sales was reported.

Benzylisoeugenol—The high cost and scarcity of clove has been reflected in the price of this derivative. The lowest quotation reported last week stood at $10.25 a pound. Other quotations ranged to $10.95 a pound. Supplies were quite limited and buying interest was light.

Citral—A reduction of 50c. per pound occurred in the price of this aromatic. It was offered between $4.25 aid $4.75 per pound. With lemongrass oil in plentiful supply and rather easy in price, there was no problem in maintaining the output of the derivative. A fairly good demand was reported.

Citronellol—Following the extremely soft citronella oil, this aromatic derivative took another reduction last week when prices dropped to a new low of $2.45 per pound. It ranged to a high of $2.90 per pound. Producers held large stocks which

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they offered quite freely to consumers. A moderately good interest was shown by users.

Eugenol—Although there has been much difficulty in obtaining clove buds for the preparation of this derivative, it has been reported that the cheaper clove leaf oil has become quite plentiful. This has made it possible for producers to continue the output of eugenol at prices of $3.95 to $4.25 per pound.

Geraniol—Prices for the extra grade have declined to the lowest level since the last war. The minimum quotation dropped 25c. per pound to $1.85 a pound. Other prices quoted, ranged to $2.40 per pound. There was an abundant supply available and production could be maintained with ease because of the low cost of citronella oil. Standard grade geraniol was easy at $1.40 to $1.80 per pound.

Geranyl Acetate—Like related citronella oil derivatives, this material was priced more favorably to consumers in some places last week. Quotations declined as much as 30c. per pound to a new low price of $1.80 per pound. The range of quotations extended to $2.40 per pound. Stocks were quite ample and producers offered the material freely to consumers, who displayed a good interest in the article.

Hydroxycitronellal—A sharp drop in the minimum quotation occurred last week. The reduction amounted to 45c. per pound, placing the material at $6.75 to $8.40 per pound. The market was extremely favorable to the consumer and supplies were quite plentiful. There was no hitch in production with citronella oil readily available at very low prices.

Ionones—Reflecting the easy lemongrass oil market, these derivatives were quite plentiful at rather favorable prices. Alpha ionone could be had at $5.05 to $9.05 per pound, depending upon producer. Beta ionone was quoted at $5.40 to $15 per pound and methyl ionone could be had at $5 to $7.40 per pound. A fairly good demand was reported for all types.

Musk—The synthetic musks market was without special feature. All varieties were available in quantities sufficient to cover the requirements of consumers. Prices held unchanged, the ambrette selling at $5.60 to $5.85 per pound, depending upon quantity and container, ketone being quoted between $5.35 and $5.60 per pound and xylol at $1.65 to $1.90 a pound. A steady call was reported for the materials.

Phenylethyl Alcohol—A good supply of this chemical was available as producers maintained a steady output. Basic materials could be had without difficulty, a change from the situation last year. Prices remained stable at $1.57 to $2.15 per pound.

Terpineol—According to the industry, there was quite a flood of this material available on the market, in some cases offers being priced below the market level of 39c. to 43c. for prime oil and 48c. to 50c. for extra grade. Only a moderate interest was reported.

Breon Advances Two

Harry W. Fowler and Harold M. Nelson have been advanced to divisional managerships of George A. Breon & Co., New York, according to Graham Erdwurm, president. Mr. Fowler is managing the Richmond, Va., division, and Mr. Nelson heads the Chicago division.

Trade Briefs

University of Texas College of Pharmacy has named William J. Sheffield an assistant professor of pharmacy.

P. C. Magnus, president of Magnus, Mabee & Reynard, Inc., New York, served as chairman and toastmaster for the recent Girls' Town, Inc., dedication dinner at the Waldorf-Astoria hotel, New York.

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Protective Coatings Materials

Domestic standard and Argentine caseins were lower in price last week. Lemon No. 1 and the bleached grades of shellac also took a downward turn, reflecting conditions on the Indian market.

Some fluctuation was apparent in the demand for aluminum paste and powder, with the paste somewhat the better mover. Antimony oxide held at fair levels of demand. Supply was up to the market, and there was material here from abroad. Acetylene black continued to sell steadily and well. There was considerable government business and another good outlet was flooring for hospitals. The rubber makers and the battery people continued to take their usual share. One producer pointed out that it had warehouse stocks of ultramarine blue for the first time in about two years. Demand was slow, holding to about the levels of the first of the year.

A normal movement in dry colors was maintained. Supply was strong enough to handle it. Synthetic and natural iron oxides showed no brisk turnover, although they were a little better than they had been. Demand for lead pigments was approximately fair and supply was increasing because of improvements in the metal situation. Litharge supply was stronger and demand was holding fairly well. Call for lithopone was fairly good. Zinc pigments showed no change.

China and ball clays moved at fair to good levels. The overall demand for pyrophyllite was about average. The insecticide demand is expected to become heavy the beginning of next month and, as usual, pyrophyllite consumers in other lines were advised to stock up against it for the heavy two-months insecticide season. Talc demand from the paint makers was below last year's comparable quarter, although better than the 1951 average. The ceramics demand for talc held at a normal point.

Natural resins showed no change, but it was expected that the coming of spring and the Indonesian currency devaluation would have a healthy influence on demand. The asbestos market was unchanged pricewise. Demand for long fibers was greater than the supply, although there was some improvement in the supply of wastes and shorts, as a result of seasonal influences.

Market Trends

Prices Advanced

None

Prices Reduced

Casein, domestic, standard, 1c. per lb.
Argentine, 3¼c. per lb.
Shellac, lemon No. 1, ½c. per lb.
bleached, 1½c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
215.3	215.3	215.3	173.7	212.8

(For Current Prices see Page 9)

Prime Pigments

Aluminum Paste, Powder—The market showed some fluctuations on demand. Paste was reported to be moving somewhat better than powder. Supply was at a pretty good level. The paste, lining, extra-fine, was unchanged at 59½c. and the standard at 41c. The following prices prevailed for the powder:— lining, extra-fine, 97½c.; standard, 68½c.; rubber compounding grade, 58½c.; unpolished standard, 54½c., and varnish standard, 59c.

Antimony Oxide—Demand was at fair levels, holding where it had been for some time. Supply here was adequate, with material also coming in from abroad. Prices were maintained at 44½c. in carloads and 45½c. in less than carloads.

Black, Acetylene—Demand, which does not vary much, anyway, was called steady and good last week. It was said that there was a considerable amount of government business at this time. Another large continuing use was for flooring in hospitals, which a number of states have specified. The demand for use in conductive lacquers was still pretty much experimental. The rubber and battery industries continued at their customary good levels of demand. Supply was all right all around. Prices continued unchanged.

Blue, Ultramarine—Demand was slow. It was, however, maintaining about the same level that had been apparent at the first of the year. One producer pointed out that it had warehouse stocks for the first time in almost two years and could accept orders for almost any quantity. Cobalt type, dry or pulp, was posted at 28c. to 30½c., and regular types, dry, were at 15c. to 33½c.

Dry Colors—Demand was continuing at close to normal levels during the week. Supply was strong enough to accommodate it without pinch and the price structure was reported unchanged.

Iron Oxides—Synthetic and naturals were said to be selling not too briskly, although somewhat better than they had been. Most of the orders at the present time were small and represented material that was wanted for immediate use. There were no changes pricewise.

Lead Pigments—The supply was increasing because of an improved picture in the metal, which has come about through bigger quotas and material coming in from abroad. Demand was said to be running to about fair levels. Prices held firm and unchanged. The coming of the spring months, it was hoped, would have an effect in increasing the demand.

Litharge—Demand was not at high levels, although it was holding up fairly well. There was an improvement in the supply position and the price structure was reported to be without change.

Lithopone—Demand held at fair levels, although it was not what it had been during the tight period for titanium pigments.

Zinc Pigments—Demand was characterized as fair to good. Supply held strong enough to accommodate the market without pinch. Prices continued unchanged.

Total production of zinc oxide in January was 15,617 short tons, a decline of 2 percent from December and 11 percent below the 1951 monthly average of 17,490 tons, according to the Bureau of Mines. Total stocks at producers' plants rose 8 percent, to 29,618 tons.

Inventories of lead-free zinc oxide were 18,770 tons on January 31 and leaded stocks established an all-time high record of 10,848 tons. Output of lead-free declined 10 percent, to 11,728 tons and leaded production was 3,889 tons, compared with 2,901 tons in December.

Total shipments of zinc oxide increased 4 percent over December but remained well below the 1951 monthly average of 16,031 tons. Sales of lead-free zinc oxide rose 6 percent whereas leaded zinc oxide shipments were 8 percent below December.

Fillers and Extenders

Clay—Demand was running from fair to good levels for China and ball materials last week. There was no recent additional activity reported, and no particular industry or group of industries consuming any more than average amounts. Supply was high enough to accommodate the normal demands of the market.

Mica—NPA officials have asked the industry to suggest methods by which the supply might be increased sufficiently to safeguard defense requirements in case of an acute emergency. According to NPA, a shortage exists in this country's supply of certain grades and sizes, which are important to the defense program. It was suggested that shortages could be relieved to some extent by a domestic production program being developed which would increase the mica output of the Carolinas, Virginia, Georgia, New England and South Dakota.

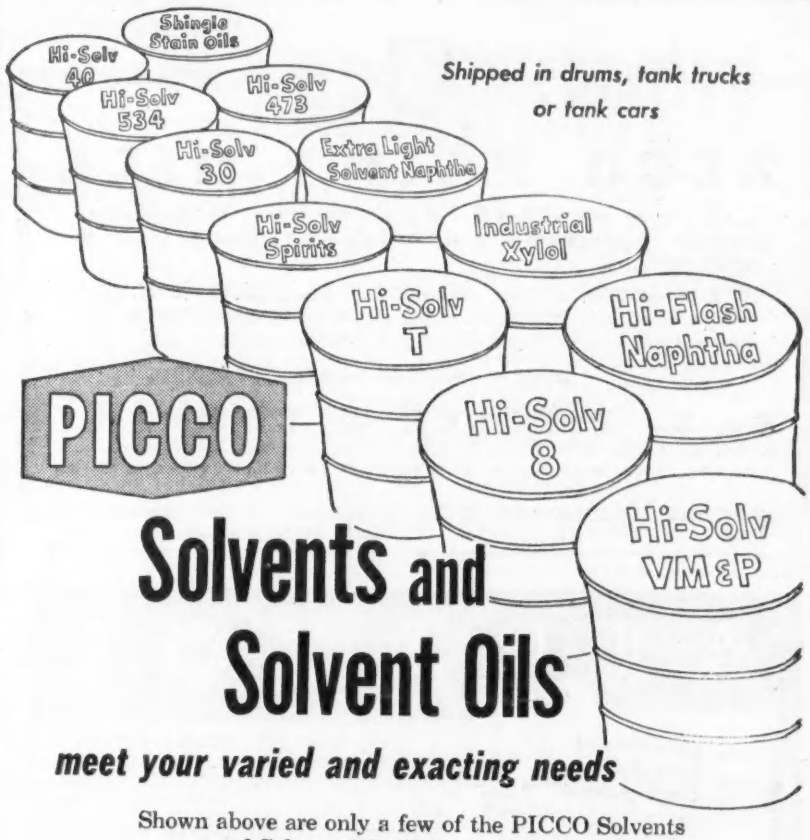
Pyrophyllite—The overall demand was running at about average levels. Demand from the battery makers was at a lower point. Paint producers continued taking about normal amounts. The insecticide season will be running its heaviest in April and May. Just how heavy insecticide demand would be this year could not be determined right now, although, since that is a time of overall tightness, the producers generally advise consumers in other lines to stock up in advance of the insecticide period.

Talc—Demand from the paint makers this quarter was reported to be below that of the comparable period last year, although higher than the 1951 yearly average. The ceramics industry, in which there are no appreciable seasonal ups and downs to demand, continued to take material on about a normal level. Supply was up to the market and prices were reported unchanged.

Synthetic Resins

Ethylcellulose—Demand for the molding powder was steady and at what was called a fairly good level. Supply was in

For Late Market Developments, See Page 4



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Send for Bulletin 12

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a pretty fair position and there were no pinches in accommodating the market.

Methylcellulose—There was no change from the position of the past several weeks. Demand was at a fair level and supply was high enough to make the material easily available.

Polystyrene — This material had been slow since the first of the year, but in the past thirty days or so it was reported to have shown a pickup. At present the call for it was said to be at a good level. Supply was ample.

Polyvinyl acetate resins were said to be running from fair to middling. They were off a little from previous levels and there was some spottiness in their movement. They showed a variance from week to week. There was no particular trouble with the supply.

Polyvinyl formal resins had been in a somewhat spotty position but were firming up as a result of the export demand. On the domestic side of the picture, they were said to show a little spottiness. Enough material was available to accommodate the market.

Natural Resins

The expected spring increase in demand and the anticipated pickup resulting from the Indonesian currency devaluation had still not come about last week, although it was still thought that both these factors would have their effect on the market before long. In the meantime, buying was going along on a spotty basis. The caution was again heard in the trade that consumers were buying too close. Importers' stocks were not large and it was said that a heavy order for a particular material might cut supply dangerously. Stocks, however, were adequate for the market under normal conditions of ordering. There was no particular change in the foreign market during the week. The Indonesian devaluation had not affected spot prices although it had had a softening effect on futures.

Shellac—Lemon No. 1 was ½c. lower last week, at 39½c. The bleached grades came down 1½c. This action was largely a reflection of the conditions prevailing on the Indian market. Some sources said demand was running at fair levels, but one called it flat. In one quarter prices on orange grades were available only on application.

Miscellaneous Materials

Asbestos—There was no great change apparent in the market last week. Demand for the long fibers continued greater than the supply although the wastes and shorts, because of seasonal conditions, were in a better supply position than they had been recently. The price structure held at its previous levels.

Casein—Domestic standard was 1c. lower, at 28c. The domestic premium held at 37c. Argentine moved down 3¼c., settling at 19¼c. to 22½c. There was some confusion in the Argentine situation. An official committee was apparently screening bids at the source and not accepting any it considered too low. Some sources in this country thought that the demand was improving but others could see no pickup.

The Holland spot market was reported exhausted. Material for shipment was said to be sold out until May. There were supplies of New Zealand available on spot. There was no reaction there to the Argentine picture, and it was thought that the New Zealand producers could not meet the Argentine prices because of the cost of their production. Danish stocks were practically exhausted. Prices for shipment continued steady. It was said that few Danish producers plan to make casein when their flush starts next year. The Argentine situation brought an easing in French prices.

Chlorinated Paraffin—The 42 percent was in good supply and there was enough of it available for regular consumption. On the 70 percent material, one producer said it was sold out on DO's. The 42 percent was listed at 14c. to 16c. in carloads and 14¾c. to 17c. in less than carloads. The 70 percent was 18c. in carloads and 19c. in less than carloads.

Chlorinated Rubber—Prices were unchanged. Demand had eased somewhat recently, but with the coming of spring it appeared to be picking up again. Supply was readily available.

Glue—Demand for bone was reported to be lagging a bit, although it was said that

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there was no big danger of its falling off seriously at this time. The lag was about in proportion of that of other items in the protective coatings market at present. Supply was ahead of the call at the present. Prices were unchanged.

Ground glue, 90 jellygrams, was said to be fairly strong on demand, which represented no particular change from the immediate past. The paper people and the gum tape industry were still among the heaviest purchasers. Enough supply was available to accommodate the market without any pinch.

Graphite—The maintaining of an inventory is the major problem today, according to an industry committee report to the National Production Authority. The reason was said to be uncertain supply of various grades and an unstable market situation. In most cases, it was said, quality, delivery date and asking price of foreign material are unpredictable and undependable. There were no indications of any improvement in the immediate future.

Oil, Putty—The petroleum type was said to be moving in a fairly good volume, with the call for it coming pretty broadly from the various consuming industries. One producer pointed out that it had no particular leeway in supply but that there was no particular pinch, either. Prices were maintained at 10c. in tankcars, 11c. in carloads and 12c. in less than carloads.

Naval Stores

The Department of Agriculture reported gum rosin sales for the week ended Thursday, March 27, as totaling 1,761 drums, while gum turpentine sales for the same period totaled 32,400 gallons. Gum turpentine prices during the week fluctuated between 52½ and 54 cents per gallon, turning upward on Thursday from ½ to 1½ cents per gallon and hitting the 54-cent figure by Thursday noon. Gum rosin prices were up and down during the week, some grades varying by 50 cents per 100 pounds. Drum prices on various grades determined by sales during the week, indicated that by Thursday noon prices per 100 pounds f.o.b. plant, were as follows:—I, $7.60; K, M, $7.60; and WW, $7.65. Bag prices reported were K, $7.55; K, M, $7.55; and WW, $7.75.

Steam distilled wood turpentine, per 7-pound unit, tankcars, varied from 50 to 54 cents f.o.b. plant. Wood rosin sales indicated that by Thursday noon prices per 100 pounds stood at FF, $6.50; G, H, I, K, $7.15; M, N, $7.25; WG, $7.64; and WW, $7.73.

Prices paid producers for crude gum, delivered, commercial, to processing plants the week of March 17 through 22 averaged $24.94 per standard barrel compared with $25.54 for the previous week; that earmarked for the loan averaged $24.73. At the same time last year, the commercial price per barrel was $35.95. The 17 reporting plants received 4,872 standard barrels of commercial gum and 2,172 barrels for loan, making a total of 7,044 barrels, or 414 per plant as compared with 286 barrels per plant a week ago and 324 barrels a year ago. The average content was 10.91 gallons of turpentine and 296.2 pounds of rosin. The gum was graded 10 percent WW, 24 percent WG, 24 percent N, 23 percent M, and 19 percent K and below.

The Savannah Exchange for the week ended Thursday reported no gum rosin sales, receipts of 261 drums, and shipments of 50 drums, leaving stocks at 12,309 drums. Gum turpentine showed no sales, receipts of 165 drums, shipments of 407 drums, leaving stocks of 3,684 drums.

In the New York market, carlot gum rosin prices, f.o.b. N. Y. stood on Friday at B through N, $8.50 per 100 pounds; WG, $8.55; and WW,X, $8.65. Less than carlot prices, ex warehouse, were 75 cents per 100 pound higher. New York f.o.b. tankcar prices on gum turpentine stood at 63 cents per gallon, while less than carlot drum quantities were listed ex warehouse at 75 cents.

FPVPC to Move Office

Effective April 1, headquarters office of the Federation of Paint and Varnish Production Clubs will be located at a new address, 121 South Broad street, Philadelphia 7. The new telephone number will be KIngsley 5-1506.

Trade Briefs

Glidden Company, Cleveland, Ohio, has developed "Nu-Pon," a new type of alkali resisting primer.

Vita-Var Corporation, New York, held a two-day sales meeting for its staff recently.

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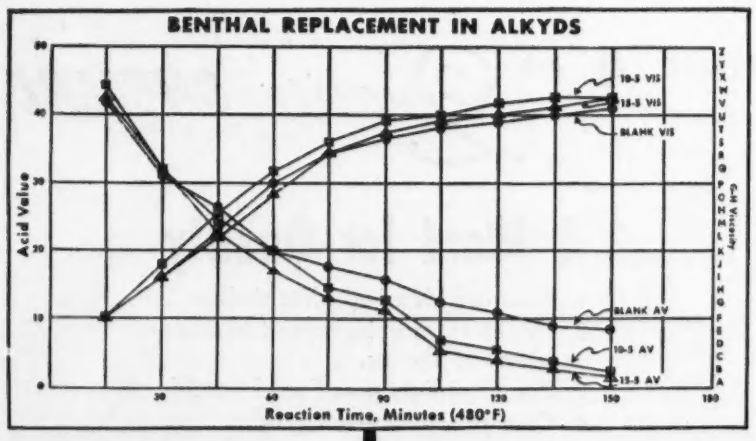

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Set to touch.	80	80	115
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Interchemical Reports New Form of Ultramarine Blue

A new form of ultramarine blue, said to have twice the coloring power of the old type, has been developed for use in printing inks and textile dyes, Charles A. Kumins and Dr. Albert E. Gessler of the Interchemical Corporation, New York, reported last week at the American Chemical Society's 121st national meeting in Buffalo, N. Y.

Because of its reputedly high coloring strength, the new pigment may be used to replace blue colors now being made from tungsten, according to Mr. Kumins, who presented the report. Ultramarine blue is ordinarily produced, he pointed out, by heating a mixture of clay, sulphur, carbon and either soda ash or sodium sulphate in the absence of air, followed by another heating process using sulphur and regulated amounts of air. The Interchemical process involves the use of a specially-prepared zeolite mixture in place of clay and soda ash, it was stated. Besides forming a pure ultramarine blue with great coloring strength, Mr. Kumins added, the time required for the entire process also was reduced from about fourteen hours to only about four and one-half hours.

Copper, Lead, Zinc Smelters Permitted to Adjust Prices

Smelters and refiners who process copper, lead and zinc ores and concentrates for others may adjust their ceiling prices for service charges to reflect certain added costs incurred since July 1, 1951, in accordance with contracts entered into before January 26, 1951, or renewed since then upon the same terms, the Office of Price Stabilization announced March 27.

Allowing increases in these service charges will have no effect on the price of refined lead, copper or zinc, or upon the general level of prices. OPS said. The ceilings for refined metal remain subject to the General Ceiling Price Regulation and are unaffected by this change in the servicing charge which is covered in supplementary regulation 94, effective April 1.

Soybean Blue Book For 1952 Published

Latest authoritative information concerning the soybean crop and industry is presented in the 1952 edition of the "Soybean Blue Book," just off the press, George M. Strayer, secretary-treasurer of the American Soybean Association, has announced. The book, sixth published by the soybean association, comprises 160 pages and cover, the largest yet published.

Assembled for quick reference are tables on production of soybeans by states and years, with prices and utilization of soybeans, meal and oil. There are directories of soybean processors, oil refiners and manufacturers using soy products in their operations, as well as firms offering services to the soybean industry. The book is available at $1 per copy from the American Soybean Association, Hudson, Iowa.

Colorizer Associates Elect

Robert O. Clark, Jewel Paint & Varnish Company, Chicago, has been elected president of Colorizer Associates, an organization of regional paint manufacturers. Robert S. Allison, jr., Colorizer Associates, Salt Lake City, Utah, is secretary-treasurer. James W. Wilson, Brooklyn Paint & Varnish Manufacturing Company, Brooklyn, N. Y., is vice-president, and Henry McLister, Kohler-McLister Paint Company, Denver, Col., is director-at-large.

Falk Appoints Talbert

Falk & Co., Pittsburgh, Pa., has appointed Norbert E. Talbert a technical service representative in the New York metropolitan area. Mr. Talbert, who in his new post will handle the complete Falk line of "Falkyd" resins, linseed oils, soybean oils, fish oils and specialty products, was previously with the Brooklyn Color Works, Brooklyn, N. Y., and the Shepard Chemical Company, Cincinnati, Ohio.

Woodfinishing Completes New Plant

Woodfinishing Products Company has completed a new plant on New Lexington road, Winston Salem, N. C., to replace the former unit of the company in that city which burned out last July. Equipped with modern machinery and laboratory equipment, the new plant represents a ten-fold increase in Woodfinishing's production capacity. The unit contains approximately 20,000 square feet of working space and a tank farm for storing about 80,000 gallons of solvents. Woodfinishing is a producer of lacquers of all kinds, wood stains, wood fillers and finishing materials in general.

Nuodex Finds Mildew Chief Cause of Paint Discoloration

Mildew—not smoke and dirt—is the chief cause of discolored paints on homes throughout the United States, according to the results of a recently-completed study released by Nuodex Products Company, Elizabeth, N. J. The study included homes in such widely separated states as Maine, New Jersey, Tennessee, Georgia, Ohio, Minnesota, North Dakota, Missouri and California.

Samples of discolored or "dirty" paint from more than 600 homes were analyzed during the past year. On 68 percent of these homes mildew was the major cause of the "dirty" appearance. Mildew was frequently a factor contributing to the discoloration of the remaining 32 percent of the homes studied.

Dow Assigns Adam

Robert J. Adam has joined the Detroit, Mich., office of Dow Chemical Company where he will handle the sale of "Styrofoam," it has been announced by Donald L. Gibb, manager of the plastics sales department, Midland, Mich. Mr. Adam has been with Dow since June, 1951.

Trade Briefs

George J. Schields, Pittsburgh Plate Glass Company, was a recent speaker before Sigma Beta Sigma in Pittsburgh, Pa.

Pecora Paint Company, Philadelphia, celebrated its ninetieth anniversary recently with a testimonial dinner honoring employees.

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Mexican 1951 Oilseed Production Reported

Mexican oilseed production during 1951 was valued at 313,000,000 pesos (approximately $36,226,620 dollars), according to data released by the Mexican Bureau of Statistics, which also stated that production has registered substantial increases in recent years.

Oils produced had a volume of 55,289 tons valued at 179,800,000 pesos ($20,808,140). This production included 26,045 tons of cotton seed oil valued at 80,000,000 pesos ($9,259,248); 22,308 tons of sesame with a value of 74,000,000 pesos ($8,552,960); 5,591 tons of coconut oil with a value of 20,000,000 pesos ($2,314,800); 719 tons of peanut oil valued at 2,400,000 pesos ($277,790), and 2,100,000 pesos ($243,040) from other sources.

D.H. Litter Names Levinson Technical Director of Labs

Sidney B. Levinson has been appointed technical director of the laboratories of D. H. Litter Company, New York. Before joining Litter, Mr. Levinson was technical director and plant manager of the Garland Company, Cleveland; vice-president of ADco Chemical Company, Newark, N. J., and president of Industrial Consulting Labs, New York.

Alkydol Publishes Dispersions Data

"Alk-O-Mer" high polymer resin dispersions for rubber base paints are covered in a newly-issued twenty-two page technical service bulletin. In addition to general information, the bulletin deals with five specific "Alk-O-Mer" dispersions, discusses preparation of "Alk-O-Mer" resin dispersion paints, properties and applications of these paints, and also includes a raw material survey. Copies of the bulletin may be obtained by writing to George Murphy, sales manager, Alkydol Laboratories, Inc., 3242 South 50th avenue, Cicero 50, Ill.

Lead, Zinc Pigment Shipments Off in '51

Moderate declines in shipments of lead and zinc pigments and zinc salts featured the industry in 1951, according to the Bureau of Census. Decreases ranged from 8 percent for zinc oxide (lead-free) to 27 percent for leaded zinc oxide. Shipments of red lead and lithopone were approximately the same as in 1950. Zinc chloride and zinc sulphate shipments declined about 4 percent and 8 percent, respectively. Decreases in shipments of pigments and salts were attributed partly to decreases in the volume of business in industries that are important consumers of these products.

Passenger automobile production dropped 20 percent in 1951 (truck output rose 7 percent) and consumption of natural and synthetic rubber declined 3 percent (natural rubber fell 37 percent and synthetic rubber increased 41 percent) compared with 1950. The value of sales of varnish and lacquer materials was 5 percent greater than in 1950, value of public construction increased 27 percent, and value of private construction approximately the same as in 1950. Paint and construction gains, of course, in part reflected rising material and labor costs.

Shipments of some lead and zinc pigments and zinc salts shipped by domestic manufacturers in the United States, in short tons, were as follows for 1951, as compared with 1950:—

	1951	1950
Basic lead sulphate or sublimed lead:—		
White	[1]	[1]
Blue	[1]	[1]
Red lead	34,300	34,400
Orange mineral		
Litharge	149,000	169,300
White lead:—		
Dry	23,300	28,300
In oil[2]	12,200	16,100
Zinc oxide	148,200	160,300
Leaded zinc oxide	44,600	61,500
Lithopone	105,000	105,300
Zinc chloride, 50°B	61,100	63,400
Zinc sulphate	21,900	23,800

[1] Bureau of Mines not at liberty to publish figures.
[2] Weight of white lead only.

Pitts. Plate Names Internatio

Appointment of Internatio-Rotterdam, Inc., New York, as exclusive sales agent in the New York area for Pittsburgh Plate Glass Company's linseed oil division has been announced by the manufacturer. Sales through Internation-Rotterdam will be principally to paint manufacturers and bulk sales.

Ferro Appoints Carmody

Ferro Chemical Corporation, Bedford, Ohio, has appointed M. M. Carmody sales manager for its line of driers, fungicides and vinyl stabilizers. Mr. Carmody was previously associated with Bradley-Vrooman Corporation, Aluminum Industries, Inc., and Pittsburgh Plate Glass Company.

Witco Publishes Mildewing Data

Witco Chemical Company, New York has issued a twelve-page "Technical Service Report on Mildewproofing Agents" with emphasis on 8 percent copper naphthenate and other chemicals with respect to government specifications. Copies may be obtained by writing Witco at 295 Madison avenue, New York 17, for report P-17.

Trade Briefs

E. F. Musterman, vice-president in charge of Devoe & Raynolds Company, New York, has been named a member of the Federal Advisory Council on Employment Security.

Lewis R. Sanderson, president of the National Gypsum Company, Buffalo, N. Y., has been elected to a three-year term on the board of directors of the Western New York State Heart Association.

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Oils, Fats and Waxes

Market for oils and fats broke wide open last week and prices in many instances reach new lows for the season. Continued lack of consuming demand brought out heavy liquidation in the futures market which was reflected in the entire list. The decline was led by cottonseed and soybean oils, which dropped substantially, affecting other edible oils. Corn and peanut oils were lower, but not to the extent of the former. Price index declined 4.3 points.

Coconut oil also declined sharply, reaching the lowest level since 1941, Copra also was easier and entirely nominal. The house ways and and means committee last week reported the bill HR 7188 to the house to exempt the processing tax of 2 cents per pound on coconut oil produced in or from material grown in the Pacific trust territory.

Tallow and greases continued easy and light trading took place at a fractional decline. Large users continued to absorb moderate quantities at the lower levels. Offerings were liberal and the market reflected the weakness of western markets. Animal oils were inactive and easier.

Drying oils also were weaker. Dehydrated castor, oiticica and tung oils were off fractionally, while refined fish oils was cut 1 cent per pound. The sharp decline of flaxseed further unsettled linseed oil and while quotations were unchanged, quotations would have been shaded.

Fatty acids were quotably unchanged, but the lower cost of basic materials has created a weaker tone in this market. Linseed fatty acid and myristic acid were lower, while lauric 90 percent was raised fractionally.

Cottonseed Oil

Heavy speculative liquidation in bleachable cottonseed oil futures last week resulted in substantial losses which brought prices down to new lows for the season. Trading was active. Selling pressure was liberal from commission houses reaching stop loss orders. Trade interests supported May and July at times and sold September forward deliveries. Weakness in soybean oil and allied markets, combined with the unimproved slow consuming demand for fats and oils were dominant factors.

Crude oil was lower, declining ¾c. per pound. Trading was limited at the lower level. Market was nominal at 11⅜c. per pound, tankcars, f.o.b. mills, Southeast and Valley and 11⅛c. per pound, Texas.

Sales and prices of prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended March 28 follow:—

	Sales	Cents per pound—High	Low	Close
May	1,233	14.30	13.80	13.86S
July	1,317	15.07	14.11	14.19S
September	754	15.25	14.41	14.51S
October	378	15.34	14.52	14.58S
December	114	15.37	14.69	14.80S
January	1	14.90	14.90	14.80N
March	5	15.23	14.82	14.75@14.85

Total sales, 3,802 tankcars.

Memphis.—Crude cottonseed oil nominal at 11⅝c. and crude soybean oil at 19⅝c. per pound, tankcars, f.o.b. mills. Cottonseed and soybean meals now largely in hands of resellers. Most mills sold out for season. Prices irregular, depending upon location.

Linseed Oil

Activity in this market was restricted to withdrawal of moderate quantities of oil against former contracts. Consuming inquiry for replacements continued inactive. Offerings were liberal at the recent price reduction. Raw oil was nominal at 17.2c. per pound, tankcars, zone 3 for March-June delivery. Flaxseed market was weaker declining sharply to below the 1952 support level of $4.03 per bushel.

Minneapolis. — Further weakness was evident in the linseed oil market the past week, even though crushers' asking prices on raw oil held steady in a range of 16.3c. to 16.7c. per pound, tankcar basis, zone 1. A few scattered tanks were booked for April-May shipment; otherwise, sales continued light.

Shipment of linseed oil, in pounds, were as follows:

	1951-52	1950-51
Past week	7,680,000	11,880,000
Since Sept. 1	239,280,000	288,560,000

Flaxseed—Market weaker, prices declining below the government support level.

Minneapolis.—The price of cash flaxseed moved steadily lower the past week, to $3.94 dropping below the 1952 support price of $4.03 a bushel. Minneapolis basis. Top price was around $4.17 a bushel. Activity was very limited in both the cash and futures markets.

Market Trends

Prices Advanced

Bees, wax, crude, African, 3c. per lb.
Brazilian, 3c. per lb.
Central American, 2c. per lb.
Carnauba wax, No. 1 yellow, 3c. per lb.
No. 2 yellow, 3c. per lb.
Lauric acid, 90 percent, 1c. per lb.
Olive foots, ¼c. per lb.

Prices Reduced

Babassu oil, ¾c. per lb.
Castor, dehydrated, ¾c. per lb.
No. 3, tech., ¾c. per lb.
Coconut oil, crude, Pac. coast, ¾c. per lb.
New York, ¾c. per lb.
refined, ½c. to ¾c. per lb.
Copra, $10 per ton.
Corn oil, crude, ½c. per lb.
refined, ¼c. per lb.
Cottonseed oil, crude, ¾c. per lb.
refined, ⅝c. per lb.
Fish oils, refined, 1c. per lb.
Greases, ¼c. per lb.
Lard, ½c. per lb.
Linseed fatty acid, 8/10c. per lb.
Myristic acid, 4c. per lb.
Oiticica oil, ¼c. per lb.
Palm oil, 1c. per lb.
Peanut oil, crude, ¼c. per lb.
refined, ¼c. per lb.
Rice bran, crude, ½c. per lb.
refined, 1½c. per lb.
Soybean, alkali refined, ½c. per lb.
clarified, ½c. per lb.
crude, ¾c. per lb.
salad, ¾c. per lb.
Tallow, ¼c. per lb.
fatty acid, hydrog., ½c. per lb.
Tung oil, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	July 1, 1950	Mar. 30, 1951
128.9	133.4	141.2	117.3	222.5

(*For Current Prices see Page 9*)

In the spot cash market, bookings totaled only 29 cars and around 6,500 bushels in trucklots.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1951-52	Receipts 1950-51	Shipments 1951-52	Shipments 1950-51
Past week	151,300	185,300	54,400	112,200
Since Sept. 1	19,104,000	22,042,000	4,017,600	3,831,600

Other Vegetable Oils

Babassu—This market was easier with coconut oil. Crude oil was quoted at 11½c. per pound, tankcars, New York delivery.

Castor Dehydrated — Conditions continued unsettled and quotations were reduced ¾c. per pound. Bodied declined to 36.85c. er pound, tankcars, and unbodied, 35.35c. per pound, tankcars, f.o.b. works. No. 3 technical was lower at 31½c., same basis.

Coconut—Crude oil continues easy and dropped ¾c. per pound. Tankcars were quoted at 7½c. per pound, f.o.b. Pacific coast, the lowest price since 1941, and 8¾c., New York. Refined grades were off ½c. to ¾c. per pound.

Copra—Market was unsettled, declining $10 per ton. Shipments were nominal at $115 per short ton, c.i.f. Pacific coast.

Corn—Business was slow and market lower. Crude oil was nominal at 12¾c. per pound, tankcars, f.o.b. mills. Refined oil also was easier at 15¾c. per pound, tankcars, New York.

Cottonseed Refined—Lower crude oil unsettled refined. Tankcars were quoted nominally at 15c. per pound, New York basis.

Oiticica — Buying interest continued quiet. Market was unsettled and entirely nominal at 26c. to 26¼c. per pound, tankcars, New York, as to seller and delivery. Drums were inactive and unchanged.

Olive—Trading was spotty, chiefly for small lots for immediate needs. Supplies were adequate to meet current demand. Edible oil ranged from $2.10 to $2.25 per gallon, drums, spot, duty paid, depending upon quality and quantity. Stocks of foots on spot were low and held at 16¾c. to 17c. per pound, drums, as to quantity.

Palm—Market lower with other fats. Prices off 1c. to 1.3c. per pound, as to delivery. Clarified quoted at 11.70c. per pound, tankcars, and 13¼c. drums, spot. Crude oil named at 10.70c. tankcars, April delivery.

Peanut—Prices were off fractionally for nearby and forward delivery. Crude oil sold at 13c. per pound, tankcars, f.o.b. mills, nearby and 12¾c. forward delivery. Refined oil declined to 16c. per pound, tankcars, New York.

The government of India has abolished the export duty on peanut oil, kardi seed (safflower seed) and niger seed in order to maintain or improve exports and foreign exchange earnings, according to a late news report to the Office of Foreign Agricultural Relations.

Soybean—Crude oil was weak and declined ¾c. per pound. Buying interest continued slow. Crude oil was sold at 9½c. per pound, tankcars, f.o.b. mills, April shipment. May-June was quoted at 9¾c. and July-September, 9⅞c. Refined salad oil dropped to 12¼c. per pound, tankcars, New York delivery. Alkali re-

For Late Market Developments, See Page 4

fined was reduced to 12¾c. per pound, and clarified to 12c. per pound, tankcars, same basis.

Sales and prices of prime crude soybean (Contract "W") on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended March 28 follow:—

	Sales	Cents per pound High	Low	Close
May	80	10.10	9.70	9.70@ 9.80
July	104	10.35	9.70	9.78@ 9.90
September	59	10.45	9.80	9.90@ 9.95
October	1	10.35	10.35	9.95@10.15
November	3	10.40	10.40	10.00@10.15
December	14	10.50	10.10	10.10@10.20

Total sales, 260 contracts.

Tung—This market was easy with other drying oils and declined ¼c. per pound. Light trading was reported for nearby delivery. Prices ranged from 39½c. to 39¾c. per pound, tankcars, New York, depending upon seller. Drums were quoted at 41c. to 41½c. per pound, depending upon quantity. Imports totaled 130 tons and 517 drums at New York from the Argentine last week.

Fats and Greases

Greases — Market continued weak and dropped another ¼c. per pound. Trading was limited at the decline. Large users showed little interest in additional offerings. Export inquiry was slow. Choice white was nominal at 5⅜c. per pound, tankcars, delivered; yellow, 4⅜c.; house 4¼c., and brown, 3¾c., same basis.

Lard — This market was lower, with competing oils and hogs. Prices declined fractionally. Cash lard was quoted 11⅞c. per pound, tierces, Chicago.

Tallow—Quiet demand for domestic and export delivery and liberal offerings further weakened the market. Moderate sales took place at a decline of ¼c. per pound for soapmakers account. Western markets continued easy. Fancy was quoted at 5½c. per pound, tankcars, delivered; extra, 5¼c.; special, 5c., and No. 1, 4⅝c., same basis.

Fish Oils

Refined Fish—Quiet demand kept this market weak. Light pressed was reduced 1c. to 12c. per pound, tankcars, New York. Alkali refined was quoted 1c. higher. Crude menhaden oil also was inactive and nominal at 7½c. per pound, tankcars, Baltimore.

Los Angeles.—Supplies of crude oil continued light during the past week. No trading was reported for crude tuna oil, with last sales at 7½c. per pound, f.o.b. San Pedro. Offerings of refined tuna oil are available at San Diego, quoted 8c. per pound. Canadian herring oil was weaker and quoted at 7½c. per pound, duty and tax paid United States funds, f.o.b. Vancouver, B. C. Menhaden oil quotations were unchanged at 6c. per pound, f.o.b. Gulf.

Fatty Acids

Further declines in basic oils and fats created an easier tone in fatty acids. Prices were unchanged, but easy. Myris-

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Capric	6 - 7
Lauric	44 - 48
Myristic	17 - 19
Palmitic	7 - 9
Stearic	1 - 3
Oleic-Linoleic	7 - 10
Saponification Number	248 - 270
Acid Value	258 - 268
Iodine Number (Wijs)	8 - 14
Titre ° C.	21 - 27
Color, Lovibond 5¼" glass	30 Y/ 5 R max.
MIU	1% max.

CAPRYLIC ACID

Caprylic	90.0% min.
Caproic and Capric	9.5% max.
Moisture	1.0% max.
Unsaponifiable	.1% max
Acid Number	377 - 390
Saponification Number	379 - 392
Titre ° C.	10.5 min.
Iodine Number (Wijs)	.4 max.
Color, Lovibond 5¼".	20 Y / 4 R max.

CAPRIC ACID

Capric	90.0% min.
Caprylic and Lauric	9.5% max.
Moisture	1.0% max.
Unsaponifiable	.1% max.
Acid Number	316 - 325
Saponification No.	318 - 327
Titre ° C.	26.5 min.
Iodine Number (Wijs)	.3 max.
Color, Lovibond 5¼".	20 Y / 4 R max.

LAURIC 90 ACID

Lauric	90.0% min.
Capric and Myristic	9.5% max.
Moisture	.1% max.
Unsaponifiable	.1% max.
Acid Number	274 - 280
Saponification Number	276 - 282
Titre ° C.	39.5 min.
Iodine Number (Wijs)	.10 max.
Color, Lovibond 5¼".	8 Y/1.5 R max.

LAURIC 60 ACID

Lauric	60.0% min.
Capric	1 %
Myristic	2%
Palmitic	24 %
Oleic, Stearic, Linoleic	12 %
Unsaponifiable	.4%
Acid Number	248 - 256
Saponification Number	251 - 257
Titre ° C.	31 - 34
Iodine No. (Wijs)	10 max.
Color, Lovibond 5¼" glass	20 Y/4 R max.

MYRISTIC ACID

Myristic	90.0% min.
Lauric and Palmitic	9.5% max.
Moisture	.5% max.
Unsaponifiable	3% max.
Acid Number	239 - 246
Saponification Number	241 - 248
Titre ° C.	50.5 min.
Iodine Number (Wijs)	.7 max.
Color, Lovibond 5¼".	8 Y/1.5 R max.

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tic acid was dropped 4c. per pound and hydrogenated tallow fatty acid ½c. per pound. Lauric acid 90 percent was raised 1c., while 60 per cent was unchanged.

Cake and Meal

Cottonseed Meal—Offerings of cottonseed meal throughout the South were practically non-existent. Oil mills continued to report they have sold their expected productions of meal for this season, and the supply of seed available is extremely small.

Linseed Meal—Offers continued scarce. Production moved steadily against contracts.

Minneapolis.—Linseed meal situation remained unchanged, although there was trade talk and rumors that ceiling prices would be advanced $5.50 per ton in the near future. Offerings, in the meantime, were very limited and bulk of the production continued to apply on old contracts. Quotations on linseed meal held at individual crushers ceilings, with extracted linseed meal quoted in a range of $64.50-$65.50 and expeller meal at $66-$66.50 per ton, both, bulk, in carlots, f.o.b., Minneapolis.

Shipments of linseed meal, in pounds, were as follows:—

	1951-52	1950-51
Past week	9,960,000	12,600,000
Since Sept 1	343,440,000	561,840,000

Peanut Feed—The tight situation on cottonseed and soybean meals resulted in heavy demand for peanut feed for shipments through July. The government released about 3,000 tons of peanuts last week for crushing. This is about the normal weekly production. Few mills have any supplies, but occasional resale cars of 45 percent old process feed can be bought at $86 sacked, f.o.b. Georgia and Alabama mills, immediate through June.

Waxes

Beeswax—Clearance of low price crudes stiffened the market and quotations were lifted 2c. to 3c. per pound. Offers for shipment were scarce and maintained at higher levels. Crude African was firm at 54c. to 56c. per pound, spot; Brazilian and Chilean at 70c. to 72c. and Central American, 67c. to 69c. Refined grades were inactive and quotably unchanged.

Carnauba—Feature of the market was the stronger tone of yellow grades. Spot stocks were up 3c. per pound and held at the cost of replacement from Brazil. No. 1 yellow was advanced to $1.18 to $1.20 per pound and No. 2, $1.16 to $1.18 per pound, as to quantity. Distressed lots of fatty grades kept the local market unsettled.

RARE FMC BUYS

CRUSHING
GRINDING
SIFTING
MIXING
CONVEYING

EQUIPMENT

5—Williams Heavy Duty Hammer Mills No. 3 and 4, 50/65 HP.
3—Mikro Pulverizers No. 1, 2 and 4.
2—Gruendler Mills No. 3 and No. 12 to 75 HP.
1—Gump "Bar-Nun" No. 40 Hammer Mill, 75 HP.
Raymond Imp Mill and No. "00" Pulverizer.
Ball & Jewell No. 1½ Stainless Rotary Cutter with 40 HP.
2—Sprout Waldron Saw Tooth Crushers; 16"x16" and 20"x25".
1—American Pulverizer, Ring Roll Crusher, 50 HP.
1—Sturtevant Jaw Crusher; 8"x10".
1—Stainless Steel Saw Tooth Rotary Crusher; 2 Rotors 10"; 2 HP.
Large quantity of REDLER Conveyor; installations available for moving powder and granular material in any direction at any speed.
2 Steel Cased Bucket Elevators up to 40' high; adaptable to your needs.
Ribbon Type Dry Powder Mixers in steel and stainless up to 3,000 lbs.
Rotex and Ro-Ball Sifters; 20"x48"; 40"x80" and 40"x120".

FIRST MACHINERY CORP.
157 Hudson Street
New York 13, N. Y.

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Feinc Stainless Steel Rotary Filter, 3' x 2'.

1—Fletcher Stainless Steel Centrifuge, 20" Perforated Basket.

1—Sharples Stainless Steel Super D Canter, Model #PN-14.

2—Buflovak Double Door Vacuum Shelf Dryers, 20 Shelves, 5' x 160".

2—J. P. Devine Vacuum Shelf Dryers, 5 & 9 Shelves.

1—Niagara Model #200 Filter, Stainless Leaves.

1—Sparkler Model #33-S-26 Monel Jacketed Filter.

1—Shriver Stainless Steel Plate & Frame Filter Press, 24" x 24", 4 Eye, Closed Delivery, 10 Chambers.

1—Shriver Evedur Plate & Frame Filter Press, 42", Closed Delivery, 41 Chambers.

1—Bird Type 316 Stainless Steel Centrifugal Filter, 18" x 28".

1—Shriver Wood Plate & Frame Filter Press, 42", Closed Delivery, 38 Chambers.

1—Sperry Bronze Plate & Frame Filter Press, 18" x 18", 14 Chambers.

2—Downington Stainless Steel Heat Exchangers, 500 sq. ft. each.

1—High Pressure Stainless Steel Hydrogenator, 250 PSI, 360 gals. cap.

1—Stainless Steel Jacketed Vacuum Reactor, 550 gals. cap. with agitator.

1—Blaw-Knox Stainless Steel Direct Fire Kettle, 6' x 7'3", 1,500 gals. cap.

20—Koven Stainless Steel Jacketed Kettles, 380 gals. cap. each.

1—Koven Stainless Steel Mixing Tank, 1,000 gals. cap., with Nettco Drive and Turbine Agitator.

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1—AMERICAN 42x120" atmospheric double drum.
1—3' x 26' MONEL shell, Hot Air Dryer, saw tooth flights, steam coils, etc.
1—5'6" x 24' Direct Heat Rotary Dryer or Rotary Kiln, welded shell.
1—7' x 70' Louisville Type L, Indirect-Direct Heat Rotary Dryer.
1—Devine #7 Vacuum Shelf Dryer, 13 shelves 40 x 43.
2—Buflovak Double Drum Dryers 32" x 90" complete with stainless steel accessories.
4—Buflovac 5' x 12' double drum Dryers.
1—Devine Rotary Vacuum Dryer, 2' x 8' also 5' x 25'
2—Buflovak Vacuum Drum Dryers, 8' x 10' with all accessories.
1—6' x 50' Louisville welded shell Rotary Steam Tube Dryer with two rows, 54 tubes. Also two 6' x 27' Davenport same type.
3—J. P. Devine Double Door Vacuum Shelf Dryers; each equipped with 20 heated welded shelves 59" x 78", pumps and condensers.
2—5' x 40' Ruggles-Coles Direct Heat Rotary Dryers.
2—Link Belt Rotо Louvre Dryers, #207-10 and 705-20.

FILTERS & FILTER PRESSES

1—Shriver, iron, steam heated, 30" x 30", 30 chambers.
4—Shriver & Johnson 30 x 30 iron plate and frame, 35-40 chambers each.
1—8' x 12' Oliver Lead-Wood Vacuum Filter, Acid-Resisting.
3—Oliver Vacuum Filters, Incl. 8 x 12' 11'6 x 14' 11'6 x 18'.
1—American 6' dia. 2 disc. Vacuum Filter, with all auxiliaries.
2—ALUMINUM Sperry FILTER PRESSES: 1—30" x 30" 45 chambers, 1—24" x 24" Plate and Frame, 24 chambers.
1—#12 Sweetland Filter, 36 leaves on 4" centers
1—Sperry 24x24 P. & F., 25 chambers, 2" frames.

EVAPORATORS

1—Swenson triple effect Evaporator, horizontal copper tubes, total 1320 sq. ft. H.S. Now Installed and complete with supporting steel condenser, pumps, piping, etc.

Also used as Finishing Pan—

1—Swensen single effect Evaporator, copper tubes, 440 sq. ft. H.S. with supporting steel condenser, pumps, piping, etc.

PEBBLE & BALL MILLS

1—7'6" dia. x 10' long, 1,800 gals., Burrstone lined.
3—6' dia. x 8' long, 800 gals., porcelain lined.
1—5' x 6', chrome manganese lined.
4—5' dia. x 4' long, 235 gals., porcelain lined.
1—54" dia. x 42" long, 160 gals., Burrstone lined.
1—45" dia. x 42" long, 125 gals., porcelain lined.
1—37" dia. x 48" long, 100 gals., porcelain lined.
2—24" dia. x 38" long, 35 gals., porcelain lined.
2—24" dia. x 30" long, 20 gals., porcelain lined.

All Pebble Mills complete with porcelain balls or flint pebbles.

MIXERS

1—Howes 3,000# Dry Powder, double ribbon.
1—J. H. Day, size F, 1250#; 1—J. H. Day size D10, 1,250#; 1—Munson Rotary 1,000# batch.
4—Baker Perkins, jack. Mixers, 3,000 gal., size 30, type X.
1—BP 100 gal. jack. Mixer, heated blades.
1—Patterson 110 gal. S.S. Vac. Kneadmaster, jack

JACKETED KETTLES

1—1,000 gal. Stainless Steel, jacketed & agit.
1—10' dia. x 4' Bartlett and Snow 1800 gallon, with agitator, 9/16" plate, 140 lbs.
3—1200 gal. Steel Steam Jacketed Kettles, closed.
5—Dopp kettles, 100, 150, 350 and 600 gallon.
2—Steel jack. agitated, 400 and 600 gal.
1—500 gal. open, agitated.
2—Lee 200 gal. S/S, 125#; 1—300 gal. S/S, 100#
4—Burkhardt copper, 275 gal.
2—100 gal. and 3—150 gal. Dopp C.I. dbl. motion, agitated.

MISCELLANEOUS

1—Unused Devine Vertical Condenser-Receiver, 143 sq. ft. Admiralty tubes, complete.
1—Capem SIF Capper, cap feeder, m.d.
4—Swenson-Walker, jacketed, Crystallizers.
2—Buflovac 6' dia. Vacuum Crystallizers.
1—Buflovac 6' dia. Atmos. Jack. Crystallizers.
1—6" x 15" Sturtevant Jaw Crusher to ½".
1—24" x 15" Set Sturtevant Crushing Rolls, balanced type.
1—5-Roll Raymond High Side Pulverizer.
1—Stokes DD2 Rotary Tablet Machine, Reeves drive and motors, max. tablet 1 3/16".
3—Mikro Pulverizers, 2TH, 2S1, 4TH.
1—Stokes R single punch, maximum tablet 2½"
5—9,800 gal. Horizontal Stainless Steel Storage Tanks #304 S/S lined, now equipped for mixing and also jacketed for steam or for cooling.

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1—STRUTHERS WELLS 3,000 GAL. TYPE 347 S.S. REACTOR.
7—GROEN 150, 125 GAL. S.S. JACKETED AGITATED KETTLES.
4—SHRIVER 36" CAST IRON P&F FILTER PRESSES, 30 CHAMBERS, CLOSED DELIVERY.
5—SHRIVER 30" CAST IRON P&F FILTER PRESSES, 30 CHAMBERS, OPEN DELIVERY.
4—SPERRY 24" CAST IRON P&F FILTER PRESSES, 16 CHAMBERS, CLOSED DELIVERY.
2—OLIVER 8' x 10' MONEL ROTARY VACUUM FILTERS.
2—#7 SWEETLAND FILTERS WITH 27 LEAVES ON 3" CENTERS.
1—INDEPENDENT 36" WOOD P&F FILTER PRESS, 28 CHAMBERS.
3—OLIVER 8' x 12' STEEL ROTARY VACUUM FILTERS.
1—QUADRUPLE EFFECT EVAPORATOR, BRASS TUBES, 16,000 SQ. FT.
8—HEAT EXCHANGERS, 300 TO 1,000 SQ. FT.
2—FITZPATRICK MODEL D COMMINUTERS, 7½ HP.
1—LINK BELT MONEL 2'7" x 8' ROTO-LOUVRE DRYER.
10—PATTERSON, ABBE PEBBLE MILLS, 6' x 10', 6' x 8', 4'6" x 3'6", 3' x 4', 3' x 3'6".
2—ROTEX, ROBINSON 40" x 104", 40" x 84" SINGLE DECK SIFTERS.
1—FLETCHER 40" SUSPENDED CENTRIFUGAL, STAINLESS PERFORATED BASKET.
1—TOLHURST 32" SUSPENDED CENTRIFUGAL, MONEL BASKET.
1—TOLHURST 48" CENTER SLUNG CENTRIFUGAL, STAINLESS BASKET.
1—ALLBRIGHT-NELL 60" x 80" SINGLE DRUM FLAKER.
1—BUFLOVAK 32" x 100" DOUBLE DRUM DRYER, COMPLETE.
5—38" STAINLESS STEEL REVOLVING PANS.
2—2,000 AND 1,000 GAL. CLOSED, STEEL, JACKETED, AGITATED KETTLES.
1—BUFLOVAK TYPE VRC SINGLE EFFECT S.S. EVAPORATOR, 94 SQ. FT. WITH JET CONDENSER.
2—DAY 100 AND 30 GAL. DOUBLE ARM JACKETED MIXERS.

1—SHRIVER 36" CELERON P&F FILTER PRESS, 50 CHAMBERS.
1—BAKER PERKINS TYPE JNM 100 GAL. DOUBLE ARM JACKETED MIXER.
1—BLAW-KNOX STAINLESS ROTARY VAC. DRYER, 42" x 8'.
5—BUFLOVAK VAC. SHELF DRYERS, 20, 15, 7 AND 5 SHELVES, 42" x 42".
1—EIMCO 4' x 4' ROTARY VACUUM FILTER WOOD DRUM, MOTORS, PUMPS, PIPING, ALL ON STEEL BASE.
2—RAYMOND 4-ROLL HIGH SIDE ROLLER MILLS, COMPLETE.
4—PFAUDLER 100 GAL. GLASS-LINED STILLS WITH GLASS-LINED CONDENSERS AND RECEIVERS.

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Pony Mixers, 15 and 8 gals. caps.
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F. J. Stokes, J. H. Day, New Era, Hottman Mixers, from 2 to 450 gal., with and without Jackets, Single and Double Arm.
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Day 20" x 39" 3 Deck Sifter.
Copper, Aluminum and S. S. Steam Jacketed Kettles, with or without Agitators.
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Kent Three Roll Roller Mills.
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S. & S. B. Transwrap Fillers.
Stokes and Smith G1, G2, G6 Auger Powder Fillers.
S. & S. HG88 Duplex Auger Filler.
Horix S. S. Rotary Filler.
Colton Rotary Tablet Machine.
Stokes 2C Tube Filler and Closer.
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ALWAYS YOUR OLD RELIABLE SOURCE

1—New Tolhurst 48" Stainless Steel Center Slung Centrifuge.
1—Horizontal Jack. Autoclave, 25" x 66" 50 p.s.i.
1—Buflovak 6' dia. Vacuum Crystallizer.
1—Buflovak Vac. Shelf Dryer, 12 Shelves, 42" x 42".
1—Stokes Vac. Dryer, 6 Shelves, 24" x 36".
2—Buflovak 32" x 90" Atmos. Dryers.
1—Nickel Plated Drum, 48" x 46".
1—Stokes "DDS-2" Rotary Press, M.D.
2—Stokes "B-2" Rotary Presses, M.D.
1—Shriver 30" C.I. Filter Press, 36 Ch.
1—Shriver 42" C.I. Filter Press, 26 Ch.
10—Stainless Steel Agitated & Jacketed Kettles, 100, 125, 150, 950 gals.
10—Stainless Steel Tanks, 200 to 6,000 gals.
3—Aluminum Tanks, 1,500 gals., closed.
3—Aluminum Bubble Cap Columns, 27" and 36".
2—Day Jack. Mixers, Double Arm, 100 and 200 gal.
4—Rotex Screens, 36" x 72" to 40" x 120".
3—Fitzpatrick "D" Comminutors Stainless Steel, M.D.
2—Mikro Pulverizers 2 TH Steel and 2 FF, S.S. & Brze.
4—Steel Tanks, 5,000 to 10,000 gals.
1—Raymond 16" Screen Mill, M.D.

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Buflovac Rotary Vacuum Drum Dryer, 24"x20", complete with vacuum pump condenser, Bronze Drum.
Gemco Rotary Blender, 20 cu. ft., complete.
Simpson Intensive Mixer Vacuum, size O.
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2 New Steel Reactors, 3 & 5 HP Agtr., 4'x4'.
2 New Vac. Receivers—135—350 gal., Jktd.
Rotex Sifter, 20"x48"—Day 40"x80".
Buflovac Vac. Dryer, 20 Shelves, 39x42.
Autoclave 3,500 gal. 300 Int. Pressure Jktd.
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Horizontal Rotary Blender, 347 SS, 5'x5.
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MAKE	TYPE	CONTACTS	DIMENSIONS
Struthers Wells	Rotary Drum	Stainless	5'x10'
Buffalo	Rot. Vac. Drum	Chrome Plated	5'x12'
.....	Rotary Drum	Stainless	32"x52"
.....	Rotary Drum	Nickel	48"x48"
Devine	Rot. Vac. Drum	Bronze	5'x10'6"
Buffalo	Rot. Vac. Drum	Bronze	5'x12'
Bagley & Sewell	Double Drum	Iron	28"x5'
.....	Rot. Vac. Drum	Steel	4'x8'
Adt	Rotary Gas	Steel	2'x15'
Squier	Rotary Atmos.	Stainless	30"x20'
Louisville	Rotary Atmos.	Monel	38"x16'

Buffalo Vacuum Shelf Dryer; 20 shelf, 40" x 44" complete.
Stokes Cabinet Dryer, 16 shelf; 3' x 3' steam heated.
Procter & Schwartz Continuous Apron Dryer; 7½' wide x 44' long.
Procter & Schwartz 5 Roll Flaking Roll Dryer; 14" x 66".

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2—Motor Driven #2SI Mikro Pulverizers, Practically Brand New.
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1—Day #2 75 Gal. Brighton Mixer.
5—Pebble Mills, 40 to 500 Gal.
10—Pony Mixers, 8, 15, and 40 Gal.
1—Eppenbach Stainless Steel Homo Mixer with a 7½ hp Explosion-Proof Motor.
HIGH SPEED Roller Mills, 9"x24" to 14"x40".
3—8" Premier Colloid Mills, watercooled.

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1—Proctor & Schwartz 6 fan automatic 3 apron Conveyor Dryer.
2—Allbr. Nell 4'x9 Atmos. Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20" Also Rotary Vac. Dryers & Vac. Shelf Dryers.
6—Steam, gas & elect. Dryers. Tray & Truck.
8—Rotary Dryers. Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

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6—Tolhurst 40" Suspended Type Centrifugals. Bottom Discharge.
8—Centrifugals, 20", 26" 30", 40" & 48". Steel, Copper Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges, 2 HP. also No. 6.
2—De Laval Multi Clarifiers, 300 & 301.

FILTERS

5—Sperry 36"x36" Iron & Wood Filter Presses.
10—Sperry and Shriver, 7", 12", 18", 24", 30", 32", & 36" iron, bronze and wood filter presses.
Extra 36" Iron Sperry Plates & Frames. Sweetland & Oliver Vac. Filters.
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.

KETTLES AND TANKS

1—Steel ASME 275 PSI Closed Pressure Tank, 4½'x10'.
1,000 gal. vert. agit. Stainless Tank.
Devine 1,000 gal. closed Jack.-Steel Kettle
1—500 gal. Closed Jack Steel Kettle.
8—Jack Kettles, 50 to 1,000 gals.
1—250 gal. Lead lined Kettle.
Stainless, alum., Copper, Glass Lined, Lead Lined Kettles and Tanks.
New Stainless Tanks, 50 to 500 gals.
Copper Varnish Kettles, 150 to 300 gals.

PULVERIZERS AND MILLS

6—Abbe Pebble Mills, 3x3½ & 6x8.
8—Abbe Jar Mills Lab. to 25 gals.
Ball & Jewell #0 Rotary Cutter.
1—Leominster #0 Rotary Cutter.
1—#32 Raymond Pulverizer 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills.
1—Mikro Pulverizer 2DH, 10 HP.
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 8"x22" 9"x32", 12"x30", 16"x40"
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
1—U. S. Lab. Colloid Mill, 1½ HP.

MIXERS—ALL TYPES

Baker Perkins double arm Mixers 200, 9 & 4½ gals. Also single arm Mixers.
1—Century 2 HP 4 speed Vert. Mixer.
Patterson 3½ dia Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers. 50 to 2,000 lbs.
Day 40 & 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

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Gt. Western 24"x32" 1 deck Sifter.
1—Jeffrey 1 deck 18"x48" conveyor screen.

MISC. AND SPECIALS

4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 3".
4—French Oil 400 Ton Linseed & Cottonseed Hydr. Presses.
4—French Oil Motor Driven Expellers.
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3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
2—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36".
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4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
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40—Stainless Steel Tanks—30, 60, 100, 150 200, 300, 500, 1000, 1400, 2000, 4200, 5700 gal.
2—16,200 gal. Vertical Stainless Steel Tanks, NEW.
1—43,400 gal. Horiz. Aluminum Tank, NEW.
2—2,053 gal. Vertical Steel Yeast Tanks, 6'6" dia. x 7'4" H., copper coils.
1—Stainless Steel Kettle, Jktd. & Agit., 950 gal., T. 347.
50—Stainless Steel and Stainless Clad Steam Jacketed Kettles—10, 40, 60, 80, 100, 150, 200, 500 gal.
1—500 gal. Lead Lined Kettle, with cover jacket, coils & agitator.
1—12 gal. Inconel Pilot Plant Reaction Kettle with condenser, receiver, etc. Dowtherm heated.
1—Glass-Lined Kettle, Jktd., agit., cover, 50 gal.
1—100 gal. Aluminum Reaction Kettle, Jktd. and Agit.
1—275 gal. Stainless Steel Vacuum Still, T316, direct fired; with 16" dia. x 3' High raschig ring packed column.
1—Stainless Steel Still Pot, 275 gal., with 100 sq. ft. tube bundle, T316 St. St. with Packed Column, 2' dia. x 6'8" H.
8—Stainless Steel Coil and Tub. Condensers, 40 sq. ft.
9—Copper Shell & Tube Condensers, 22, 65, 75, 95, 336, 340, 420 and 487 sq. ft.
2—Kux Rotary Pellet Presses, model 25, 21 & 25 punch.
7—Stokes Rotary Tablet Presses, B-2, D-3, D-4; 16-punch.
1—Fitzpatrick Model D Comminuting Machine, Stainless Steel.
1—Williams Hammer Mill, Size A, Type AK, Stainless Steel.
1—Hardinge Conical Ball Mill, 4'6" dia. x 24".
8—C. I. Filter Presses, 10" to 36" sizes.
1—Rotary Vacuum Filter, 8'x8' acid-proof, precoat.
1—Feinc Rotary Vacuum Filter, 4'6" dia. x 6' face, aluminum.
2—Sweetland Filters, #3 & #5.
1—Aisop SD-12-NR-30 Filter T316 St. St.
2—Industrial F & P Mfg. Co. Pressure Leaf Filters, size 18x48 (48 sq. ft.) type RB (rubber lined tank, bronze leaves) with slurry tank, pump & motor.
1—Illinois Water Treating System, 500 GPH flow-rate, with Zeolite tank.
2—Stokes Jacketed Vacuum Rotary Dryers: No. 59A—18"D x 42"L; and No. 59B—3'D x 15'L.
1—Rotary Hot Air Dryer, 4'x30'.
2—Double Drum Dryers, 22"x36".
6—Horiz. Ribbon Type Powder Mixers—50 lb., 100 lb., 200 lb., 400 lb., 2,000 lb.
1—Broughton style A, size 1, horiz. double arm powder mixer, 50 cu. ft.

JUST PURCHASED

ONE-PIECE WELDED BREWERY TANKS

22—15,190 gal. Horiz. Lastiglas lined.
3—5,859 gal. Horiz. Lastiglas lined
2—5,270 gal. Horiz. Lastiglas lined.
10—6,975 gal. Vert. Closed, mammut lined.
6—7,688 gal. Vert. closed, mammut lined.

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5'x38'x⅜" Absorption, ASME, 14 trays.
3'6"x58'x⅜" Absorption.
8'x24'x⅜" Absorption (2—UNUSED).
11'6"x38'x⅜" Absorption.
6'x44'x¼" Scrubber, ¼" heads, 225 PSI.
6'x49'x⅜" Bubble Cap, 19 trays.
4'x29'8" Bubble Cap, SS, 21 trays.

COMPRESSORS

Fuller C-11, 31 to 32 CFM.
Fuller C-80, 385 to 405 CFM.
Worthington, 275 CFM, 30 PSI (2).
Brunswick, refrigeration, 5½"x15", M.D.

CONDENSERS—HEAT EXCHANGERS

Al. Chal. 400 sq. ft. Admiralty tubes (NEW).
Wheeler 3,440 sq. ft. Admiralty tubes (NEW).
Braun, 1,035 sq. ft. 250 PSI W.P. (2).
Whitlock, vert., 3,463 sq. ft., steel (4).

CRUSHERS

Fairfield, 24"x24", single roll.
Two-Roll Traylor, 40"x14".
Traylor, Bulldog, Jaw, 18"x36".
Bartlett & Snow, spiked, 15"x16".
Sturtevant Mill, roll, 12"x12".

DRYERS

1106-35 Roto Louvre.
Tunnel Truck 9'x35'x9', cap. 14 trucks, comp.
Turbulaire N2 Spray, with filter.
Stokes, Rotary, Vacuum, 38"x8', Complete.
Buflovak 5'x6' Atmos. single drum.
Stokes, 4'x9' Atmos. double drum.

FEEDERS & SCREENS

Syntron, vibra-flow, type F350.
Jeffrey-Traylor type 4JT 155.
Allis-Chalmers electro magnetic, "Utah."
Fuller 6", star type (2 NEW).
Fuller 12"x13" rectangular.
Tyler-Hummer 4'x7' Vibrating Screen.
Coombs Gyratory Sifters, 20" & 24" (4).

FILTERS

36" Shriver Press, washing, closed delivery, Celoron plates & frames.
36" open, 27 chambers, wood plates.
8'x12' Feinc, all steel.
8'x10' Oliver, wood & steel (3).
11'6"x18' Oliver, all steel.
4'x3' Oliver, SS & wood (2).
#7 Sweetland, 2" spacing, 18 leaves avail.

GAS HOLDERS

100M C.F., two lift. (2).

KETTLES

2,500 gal. ASME, jack'td., agit., steel.
400 gal. Pfaudler, glass-lined, jack'td., agit.
300 gal. Pfaudler, glass-lined, agit.
40 gal. SS clad, 40 PSI, jack'td. (6).
Pfaudler 60" jack'td. evaporating dishes (2).

KILNS—COOLERS—DRYERS

7'x60'x⅜" with lifters.
6'x14'x9/16" Struthers-Wells (NEW).
5'x67'x5/16" with lifters.
4'x16'x⅜" Iowa with burner & stack
25"x15'x⅜".
9'6"x85'x¾".
10'x90'x9/16" Allis Chalmers.
8'6"x110'x¾".
9'6"x8'6"x200'x¾".
24"x24' Sincro Cooler.

MIXERS

Paddle, 19"x24"x18', complete w/drive.
Paddle, double shaft, 140 cu. ft. (NEW).
Readco 1½ SA, 80 gals.
Biystone, 48"x6'7", 500 gals. (2).
Binks, type TM60, 100 gals. (2).
Champion, type E, size 2, 110 gals.
Ajax, #3 Super, 173 gals.
Sublimator, hor., 4'x10'.

PRESSURE VESSELS

8,200 gal. 6'x40'x2", 390 PSI.
3,500 gal. 5'x23'x¾", 200 PSI (4).
2,000 gal. 5'x13'7½", 106 PSI.
1,250 gal. 4'x14', 106 PSI.
1,200 gal. 42"x16'8"x5/16", 125 PSI.
1,050 gal. 4'x12'x½", 106 PSI.

TANKS

25,000 gal. 10'x40'x⅜" (2—NEW).
12,000 gal. 8'x32'x¼" (2—NEW).
8,500 gal. vert. 8'x23'x5/16" (NEW).
4,100 gal. vert. 5'x28'x¼" (NEW).
3,000 gal. 5'x21'6"x¼", type 438 SS.
2,300 gal. 5'x16'x¼", type 304 SS.
2,100 gal. 9'x3'6"x3/16" (2).
1,600 gal 8'x7'x3/16" (2)
1,100 gal. 5'x7'8"x¼".
379 gal. 3'x7'x9/16".
6,500 gal. Tank Car Tanks.

VACUUM PUMPS

Nash H8. (2).
Nash H7.

WEIGHING MACHINES

Weightometer, 20 ton, 18"x8'6".
Automatic, model NF, ¼ oz. to 3 lbs.

OXIDATION UNIT—COMPLETE

Consists of: 2—7'9"x19'9"x½" refractory lined, direct fired vessels; 4—3,460 sq. ft. heat exchangers; 1—5'x42'x⅜" packed tower; 1—I.R. 375 GPM, 175' head centrifugal pump; 2—Roots-Connersville 14"x18" type HD blowers, 1550 CFM, 6 PSI, 375 RPM

→ ABOVE IS ONLY PARTIAL LISTING OF OUR INVENTORY ← ASK FOR BROCHURE

Heat and Power Co., inc.

70 PINE STREET HANOVER 2-4890 NEW YORK 5, N. Y.

MACHINERY & EQUIPMENT MERCHANTS

STRIKE IT RICH !!!

PART OF MERCK & CO., PHILADELPHIA PLANT IN LIQUIDATION

LOCATED AT FALLS OF SCHUYLKILL PLANT, 4301 RIDGE AVE., PHILA., PA.

OUR MIKE FIRSTENBERG, H. GROSS, E. REED ON PREMISES (WEEK OF MARCH 31st)

AVAIL YOUSELF OF IMMEDIATE DELIVERY AT ROCK BOTTOM PRICES

1—Pfaudler 400 gallon jacketed and agitated vacuum reactor.
1—Pfaudler 300 gallon glass-lined and agitated vacuum reactor.
2—Raymond #40 Imp. mills, complete with feeding conveyor and air separator.
1—2,500 gallon ASME jacketed and agitated steel reactor.
1—1,000 gallon lead-lined agitated sulphonator.
2—500 gallon lead-lined agitated sulphonators.
6—4,000 gallon horizontal jacketed agitated steel crystallizers.
1—10,000 gallon horizontal steel storage tank.
2—1,000 gallon agitated mixing tanks.
4—Bronze rotometers.
4—18, 24 and 30" filter presses, iron and wood.
2—Pfaudler 60" jacketed evaporating dishes, glass-lined.
1—Jeffrey heavy duty hammer mill.
1—Abbe #½ rotary cutter.
3—Jeffrey and Syntron vibrators, one brand new.
1—Shriver 24" x 24" aluminum filter press.
1—Shriver 24" x 24" wood filter press.
3—American Hard Rubber acid proof pumps, 1 horsepower motor drive.
4—Coombs Gyratory sifters, 20 and 24".
3—Claridge, Sturtevant, Buffalo Forge Blowers #7—30" blades.
2—Creasey Ice Brakers.
4—J. H. Day brush sifters.
1—Dual cyclone dust collector.
1—Shriver 18 x 18" bronze 4-eye filter press, 14 chamber, closed delivery.
1—Gould Worthington, Deming, Union, Viking pumps from 1½" to 4".
3—Fairbanks portable scales.
1—Wolfe #1 sack cleaner.
1—600 gallon Baurle and Morris Copper vacuum still.
26—3 wheel trucks, 48" x 48" x 24".
2—Steel mixing tanks, 6'6" x 6'6" belt driven cross blade agitators.

REMOVED TO BROOKLYN SHOP *plus* OTHER OUTSTANDING STOCK UNITS

1—Sharples Super-D-Canter—stainless steel—type 316—10 HP explosion proof motor—used 6 hours.
3—36" x 48" steel jacketed impregnators.
5—2,500 gallon steel reactors—7' x 7'6" in the straight.
4—Beaird 4' x 27' Challenger dryers—direct heated—oil and gas fired.
1—Eimco 4' x 1' rotary vacuum filter—complete.
1—Louisville 4'6" x 25' tubular dryer—motor drive.
1—Buffalo 5' x 20' vacuum rotary dryer—15 HP.
3—Stainless steel type 316 rectangular tanks, 1,200 and 900 gallons.
1—J. H. Day 1,000# stainless steel jacketed dry powder mixer—10 HP.
1—Klein stainless steel 100 sq. ft. filter.
2—7,500# ribbon type dry powder mixers—end discharge.
1—Shriver 18" bronze filter press— 4 eye—closed delivery.
8—18" to 36" wood and cast iron filter presses.
12—Tablet presses—single and rotary—up to 5½".
1—75 sq. ft. stainless steel tubular condenser.
1—Stokes 625 gallon stainless steel jacketed and coiled vacuum pan.
1—Stokes #37 tablet press capable of making 3" x 4" pills—250 PM—motor drive.
2—Kux 60 tablet machine, up to 5½" diameter tablet.
1—2,200 gallon stainless steel clad jacketed and agitated tank—3 HP turbine.
1—Gehnrich electrically heated truck dryer—6' x 6' x 7'.
1—Nettco WT 27 agitator drive—25 to 1 ratio with 7½ HP 3/60/220volts, 1,800 RPM motors.
1—Unused Alberger lead lined condenser, 16" x 6'.
2—Stainless steel, 30" x 30" x 1" face drums.
6—Stokes vacuum chambers dryers, 60" x 49" x 53".
8—Portable stackers, 500 to 2,000#, 6' to 10' lift.
1—Royle 1" extruder—oil heated.
1—Sparkler stainless steel filter Model 14C8.
1—Ball & Jewell #1 rotary cutter chrome plated.
6—Roller mills, 3 and 5 rolls—Day & Buehler—12" x 32" and 16" x 40".
1—Charlotte #3 colloid mill—all monel contact parts.
1—Patterson 6' x 4' silex lined pebble mill—gear on shell.
1—Day Imperial jacketed sigma blade 30 gallon mixer.

We are interested in liquidating your surplus, too! Send your list!

CHEMICAL & PROCESS MACHINERY CORP.

"Pledged to Personal Service"

148 Grand Street Worth 4-8130 New York 13, N. Y.

NEW AND GOOD-AS-NEW EQUIPMENT

Stainless Steel Tanks, new, 100 and 200 gal.
2—340 gal. #316 Stainless Tanks—new.
1—Stainless Tank, No. 430 Chrome, vert. 7' dia., 10' deep, dished bottom, ¾ plate.
30—Steam Jacketed Kettles, Stainless Steel, Copper & Aluminum, 5 to 250 gals.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
80—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm at 40'.
1—Buflovak Impregnating Tank, 42"x52" steam jacketed, used one week.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
9—Horl. Tanks 7' dia. 24' lg. ½" plate.
1—A. F. Bartlett Hog Mill & 7½ H.P. Motor.
1—Sweetland Filter No. 5, 15 leaves.
3—Stainless Steel Jacketed Filters.
2—Plate & Frame Filters, 25"—open del.
4—Tanks, 100,000 gals. each.
1—Shriver 18" Aluminum Filter, 9-plates, 9-frames—closed delivery.
4—Stokes Rotary Tablet Machines RD4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL—:—6—3,000 gal. Steam Jacketed Kettles with Turbo Agitators.
1—3x4 Patterson Ball Mill, Manganese Lined, equipped with 10 H.P. 3 ph. direct drive motor.
1—Hardinge Conical Blender, laboratory size.
1—Jeffrey Vibrating Conveyor, 15' long x 12" wide.
1—150 gal. Steam Jacketed Closed Kettle, 150# w.p. on jacket, 200# inside, A.S.M.E.
1—4x8 Sturtevant Jaw Crusher
2—Ring Roll Mills—sizes 1 & 1½.

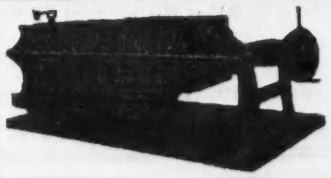
H. LOEB & SON :-: 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

AUTOCLAVE

42" DIA x 24' VERTICAL WELDED

Inspected and Approved For 400 lb. Pressure

EMSCO EQUIPMENT CO.
AFFILIATE OF EMIL A. SCHROTH
73 Hyatt Ave., Newark 5, N. J.
Phone: Mitchell 2-3536



IMMEDIATE DELIVERY FMC FILTER PRESSES and FILTERS

MAKE	SIZE	TYPE	CHAMBERS	DELIVERY
Shriver	12"	Pl. & Fr.	6	Closed
Johnson	12"	Pl. & Fr.	32	Open
Shriver	18"	Recessed	26	Open
Shriver	24"	Pl. & Fr.	18	Open
Johnson	24"	Pl. & Fr.	24	Open
Albright Nell	24"	Recessed	40	Open
Shriver	30"	Recessed	36	Open
Shriver	30"	Pl. & Fr.	29	Open
Shriver	30"	Recessed	37	Open
Shriver	36"	Pl. & Fr.	34	Closed
Sperry	36"	Pl. & Fr.	34	Closed

4 Bird-Young Rotary Vacuum Filters; 24"x48" and 52"x48", Oliver Rotary Vacuum Filter; Dorrco type 6'x3'; nickel contacts.
2 Sweetland No. 12 Stainless contacts; pressume leaf type.

FIRST MACHINERY CORP.
157 HUDSON ST WOrth 4-5900 NEW YORK 13, N. Y.

MILLS—Hardinge 4½' x 16", 7' x 48", 8' x 22" w/motors.
MIXERS—Stokes 13 gal., Lead type, double 150 gal. gear motor drive.
ROLLER MILL—Kent 4" x 8" water cooled 3 roll.
TANKS—12,000 hor. 6 vert. 7' x 10'.
PULVERIZERS—Wms. LG25, Ray. #1 w/cycl. Wms. GA 30 Sturt #1 Ring.
THICKENERS—6 Dorrco Type A-8' x 5'.
VACUUM PUMPS—IR 4 x 4 x 2¾, Devine 10 x 10, Nash H-5 bronze fitted (unused).
KILNS—Rotary 24" x 18', 4' x 30', 4½' x 40', 6' x 80'.
JAW CRUSHERS—6 x 9, 8 x 11, 8 x 14, 10 x 30, 18 x 36.
ROLL CRUSHERS—12 x 12, 16 x 10, 30 x 14, 42 x 16.
SCREENS—Hummer 3' x 10', 3' x 5', Gyro Centric 40 x 84.
PEBBLE MILL—30 x 20, 30 x 30, NEW lab. jars.
CENTRIFUGE — 48" rubber, under driven.

LAWLER COMPANY
LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0345

BUY BEST in the WEST

Eimco 8'x8' Rotary Vacuum Filter, complete
Rotex #52 Sifter, 60"x120", double deck (2)
Charlotte 10" Horiz Colloid Mill, 50 HP
Acme Copper Evaporator 5'x6'. Coil Type
Acme Copper Evaporator 5'x10'. Coil Type
Smithway Trommel Screens, 4'x12'. (10)
Smithway Shaker Screens, 42"x8'. 1 deck. (14)
Niagara Single Deck Sifter, 36"x72", 3HP.
Tyler 3'x5' Hummer Screen. 3 deck. (6)
Abbe Blutergess Turbine Sifter. 3HP
Abbe Lenart 300 gal Mixer. 30 HP
Dopp 275 gal. Jacketed Mixing Kettle, hvy.
Shriver 30" P & F Filter, 30 Chambers.
Sweetland #7 Filter, 41 leaves on 3" Centers
Moore 4'x5' Ball Mill, 15 HP ex prf motor
Wheeler Rotex #17 Vacuum Pumps, 400 CFM
Durichler X3G Pump, 3" inlet 2" outlet
Blystone 50 gal Paste Mixer, tilting type
S. S. Heat Exchanger, 8-1" Tubes, 10' long
Patterson 300 gal Reactor, 3 HP Unipower
New Jersey Pony Labeler, for large labels.
Geyer 4 Piston Filler, pts and qrts. (2)
Horiz 14 Spout S. S. Filler, with conveyor
Multiclone Dust Collecting System, Complete

All above items in stock

MACHINERY AND EQUIPMENT CO.
513 BRYANT STREET SAN FRANCISCO 7, CALIF.

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER
30 Church st., New York 7, N. Y.

AGENCIES OFFERED

Commission agents desired by Importers of Shellac—several territories now open—trade contacts desirable—replies kept strictly confidential. OPD 370.

AGENCIES WANTED

Am well acquainted, and in constant contact, with Pharmaceutical Manufacturers, Wholesale Druggists, Chain Druggists, Laboratory Supply Houses in Middle West. Headquarters in Chicago. Because of sale of one principal I now can service a replacement account. Experienced representation available to reliable manufacturer to all, or part, this trade. OPD 368.

Established Cincinnati firm covering Dayton, Columbus and Louisville would be interested in representing firms producing materials used in various industries, including paper, paint, ink, soap and rubber. OPD 360.

BUSINESS OPPORTUNITIES

I have a 1-story building in Camden, New Jersey (12,000 sq. ft. and additional ground) Capital—Part time services—What have you? OPD 369.

CAPITAL OFFERED

Capital to invest—Executive with extensive paint and varnish raw material experience has available $50/75,000, for investment in a profitable manufacturing business requiring additional capital for expansion Your reply confidential. OPD 371.

EQUIPMENT OFFERED

Plate and Frame Presses, 30"x30" standard types. Open delivery, open washing, steel skeletons, long leaf yellow pine chambers. Three units presently operating in good condition must be removed and can be bought cheaply. OPD 366.

Stokes High Vacuum Pumps—212C, watercooled, 100 cfm; V-drive; used 3 months. Satisfaction guaranteed. Quantity available, some unused. Price very reasonable, inspect. American Sales Co., 67 E. 8th St., New York, N. Y. GRamercy 3-1465.

EQUIPMENT WANTED

2 molasses weighing tanks with scales, 3000 gal. cap., beam should have 5 pounds minimum graduation and be of registrating type to keep printed records of weight. Maximum tank diameter 6 to 6½ feet answer distiller. OPD 365.

Wanted: Cast Iron Plate & Frame type Filter Press, 36 or 42 inch closed delivery. Jacques Wolf & Co., Passaic, N. J.

Equipment wanted 3000 gallon rubber lined acid tank in good condition. Silmo Chemical Corp. P.O. Box 352, Vineland, N. J.

Chemical Equipment wanted for defense plant work including autoclaves, centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 325

Wanted—To Expedite Production—Process Machinery including Vacuum Dryers, Heavy Duty Mixers, Reaction Kettles, Columns, Rotary Filters, Filter Presses, Pulverizers, Packaging and Wrapping equipment, S/S and non-corrosive Storage Tankage. Will consider a set up plant now operating or shut down. When offering give full particulars. P. O Box 1351, Church St. Sta. New York 8, N. Y.

FACILITIES OFFERED

Custom grinding to micron sizes. Pharmaceuticals, food products, abrasives, chemicals, minerals, waxes and resins Avoid capital expenditures and royalties while developing new products sales. Use our experienced technical staff —micronizing equipment — mixing, packaging and shipping facilities. OPD 326.

MATERIALS OFFERED

For Sale—Don't miss our ad on page 13. Write for complete list. Send us your inquiries for other materials. Chemical Service Corporation, 88 Beaver St., N. Y. HAnover 2-6970.

Sulfur—approximately 350,000 pounds of agricultural dusts containing 70% to 80% sulfur blended with lead arsenate and/or DDT. OPD 327.

MATERIALS OFFERED

Mercurial Ointment (Blue Ointment); 6000—1 lb. jars. Mfg'd by United & Norwich, packed in original cases, 24 jars per case. Will accept best offer F.O.B. Chicago. C. B. Goodman and Co., 5426 S. Western Ave., Chicago 36, Ill. Grovehill 6-8200.

Offer below schedule: 5 tons Tartaric Acid USP; 50 drums Diethylene Glycol; 50 drums Cellosolve; 100 drums Isopropyl Alcohol 99%; 50 drums Isopropyl Alcohol 95%; 10 drums Sec. Butyl Alcohol; 7000 lbs. Stearic Acid (Double Pressed); 40 tons Barium Chloride; 20 tons Ammonium Chloride (Tech. Refined); 15 tons Potassium Persulphate; 3 tons Zinc Oxide (Leaded); 4 drums Dimethyl Aniline; 1700 lbs. Tergitol 08; 8000 lbs. Tergitol 4; 2200 lbs. Triton X200. Aceto Chemical Co., Inc., 82 Beaver St., New York, N. Y., Digby 4-9760.

Ammonium Stearate Paste 33,364 lbs. packed in 55 gal. drums. OPD 367

Steel balls: Offering ten tons 2" Steel Balls. W. P. Heineken, Inc., 50 Broad Street, New York 4, New York. WH 4-4236.

Manufacturer sales: Methanol pure, Formaldehyde 40% Vol., Hexamethylenetetramine tech, Potassium Chrome Alum for Tanning to 15.3% Chromium oxide (CR_2O_3); Dyes: Anthraquinone, Diazo, Sirius all colors; short delivery, lowest prices, large tonnage quantity contracts wanted. OPD 372.

MATERIALS WANTED

Do not wait until conditions further limit prospects of disposing of top-heavy inventories; will purchase surplus unshipped commodities, all kinds. Particularly interested in pigments, chemicals, dyes, colors, waxes, drugs, pharmaceuticals etc. OPD 328.

Wanted: Waste Zinc Chloride or other soluble zinc salts in liquid or solid form. Large quantities. Jacques Wolf & Co., Passaic, N. J.

PLANTS WANTED

Wanted—Complete plants; also machinery. Large engineering firm wishes to acquire several complete plants through purchase of (1) capital stock; (2) assets; (3) machinery and equipment, whole, or in part. Personnel retained where possible Strictest confidence. Box 694, 1474 Broadway New York 18 N Y.

REPRESENTATION OFFERED

Export representation of chemical and pharmaceutical manufacturers on an exclusive basis sought by Citadel Color & Chemical Corporation, 154 Nassau St., New York 38, N. Y.

REPRESENTATIVES WANTED

Sales representative wanted for Foundry Resins. Reliable Concern. Our men know about this advertisement. OPD 364.

Petroleum Oil Foots Tariff Classification Change Weighed

A change in the tariff classification of petroleum oil foots from a free-list article under paragraph 1733 of the tariff act of 1930 to a dutiable item carrying a rate of 20 percent ad valorem under paragraph 1558, is under consideration by the Bureau of Customs, it was announced March 26.

The merchandise in question is obtained by treating the lubricating oil fraction of petroleum with concentrated sulphuric acid, and treating the resultant acid sludge with sodium hydroxide. Instead of being classed as distillates obtained from petroleum and entered free of duty, they would be classed as non-enumerated manufactured articles.

Interested persons were invited to submit their comments and views relative to the proposed change to the Bureau of Customs within thirty days. The bureau said that the decision will be made on the written record and no hearings will be held.

Army to Buy Dried Milk

The Army Quartermaster Corps has completed action to purchase 2,229,500 pounds of dried, non-fat milk from surplus stocks of the Commodity Credit Corporation for use of the Armed Forces, the Department of Defense announced March 25. Total price is $388,975, or an approximate average unit cost of 17.4 cents a pound, f.o.b. repackaging plants.

P.A.'s-Eye View

—Continued from page 5

a sellers' to a buyers' market are controlling influences.

Specific Commodity Changes

The trend to lower prices reported since the turn of the year is emphasized in March. Many more are down than up. Reductions percentagewise are not large and are principally in the softer goods. On the up side were acetylene, brick, calcium carbide, chromite, sugar, plywood, oxygen. Down were acetate, alcohol, butanol, gray and malleable castings, clothing, coal, corrugated and paper containers, cotton, foreign copper, lighting equipment, meat, eggs, glycerin, industrial tape, secondary lead, leather, some lumber, vegetable oils, paint, paper, wastepaper, wax, phenolics, rosin, rubber, screw machine products, some solvents, tires, turpentine, perishable tools, twine, textiles, zinc scrap.

Hard to get were sulphuric acid, bearings, copper, diamond tools, grinding wheels, machinery, nickel, pipe, special steels, copper wire. In easier supply were brass mill products, electrical controls and motors, lead, lumber, rubber, many steel items—both mill and warehouse, textiles, zinc.

Canada

The general pattern of Canadian business is now more closely paralleling that in the United States. Production rates and order books are slightly higher. Commodity price weakness is about the same. Inventories are not off as much. Employment conditions are the same. A cautious buying policy is in line with that in the United States. Defense orders are slow in developing. Industrial building is picking up. A Spring upturn is not in evidence at this time.

WANTED—SURPLUS

Chemicals, Pharmaceuticals, Botanicals, Oils, Solvents, Pigments, Colors, Waxes, Essential Oils, Aromatics, etc.

Wastes — Residues — By-Products

Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N. Y.
HAnover 2-6970 EST. 1925

Mills: Lehman 5 roll water cooled 12x32.
Paint Mixers: O&T, Kestner & Hecht, Day.
Paint Mills: Day, Lehman, etc., solid rolls.
Pwdr. Mixers: ribbon, tumbler, 50 to 3000#.
Dough Mixers: sgl. or dbl. arm, pl., jktd.
Fillers: powder, liquid, paste.
Kettles: stainless, steel—jktd., plain.
Labelers: spot, can—auto. semi.
Baker Perkins Mixers, style VIH, jktd., tilting, 100 gal. working capacity.
Highest class reconditioning—done in our own shops. We also purchase entire plants or single items.

NEWMAN TALLOW & SOAP MACHINERY CO.
1051-1059 W. 35th St. Chicago 9, Ill.

AVAILABLE . . .
CUSTOM REFINING FACILITIES . . .
- Distillation
- Extractions
- Separations
- Fractionations

Drum Lots—Tank Cars

WANTED . . .
- All Types of Crude Mixtures
- By-Products, Residues, Wastes
- Contaminated Solvents

TRULAND
CHEMICAL & ENGINEERING CO., INC.
Box 426, Union, N. J. UNionville 2-7360

FOR SALE
3-roll Mills: Day 12x32" slow speed.
Dryer: 36x80" double drum atmospheric.
Vacuum Pans: 6' stain. steel, 5' copper.
Pebble Mills: 4x5' Patterson buhrstone lined.
Reactors: 250 gal. stainless steel.
Kettle: 800 gal. copper closed, steam jack.
Kettles: Stainless steel—20 to 300 gal.
Mill: Hardinge 9"x36" buhrstone lined.
Clarifier: De Laval #600 multiple.
Oil Purifier: De Laval No. 600, 2 hp. motor.
Autoclave: 10 gal. Buflovak, cast iron.
Centrifugal: Fletcher 18" perf. basket.
Capsule Fillers: Colton 20 holder, size 0.
Vacuum Pan: Stokes 25 gal. st. steel, jacktd.
Powder Mixers: Robinson 20 cu. ft., 5 hp.
Filter Press: 24" Shriver plate and frame.
Colloid Mills: Premier, Charlotte—st. steel.
Tanks: 3,000 gal. vert. dairy gl. lined jktd.

LOEB EQUIPMENT SUPPLY CO.
1925 W. North Ave. Chicago 22, Ill.

EXCEPTIONAL BUYS FMC

STAINLESS—NICKEL—MONEL EQUIPMENT

Available Immediately from FMC

Zaremba Inconel Evaporator 7'x15½' with Inconel tubes, 430 sq. ft. surface.
2 S/S Atmospheric Rotary Drum Dryers 5' x 10'.
1 Chrome Plated Rotary Drum Dryer 5' x 12'.
1 Squier S/S Rotary Atmospheric Dryer; 30" x 20'.
1 Monel Lined Louisville Conuter Current Dryer 38" x 16'.
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4 A. T. & M. S/S 60" Link Belt Suspended Centrifugals with Vacuum tight covers.
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Lanolin Makers Urge Tailored Price Ceiling

At its second meeting with the Office of Price Stabilization March 26 the lanolin industry advisory committee urged the early issuance by the agency of a tailored dollars and cents ceiling price regulation designed to apply jointly to the lanolin and wool grease producing industries. Committee members said that present price disparities are creating problems in the trade.

Ceilings on both wool grease and lanolin are now determined under the General Ceiling Price Regulation. Committee members pointed out that the industry is presently in serious difficulties as a result of the short supply of wool grease. One member said that production of lanolin at its plant has fallen to 75 percent of normal. Some producers of wool grease were said to be withholding it from the market in the hope of obtaining higher ceilings.

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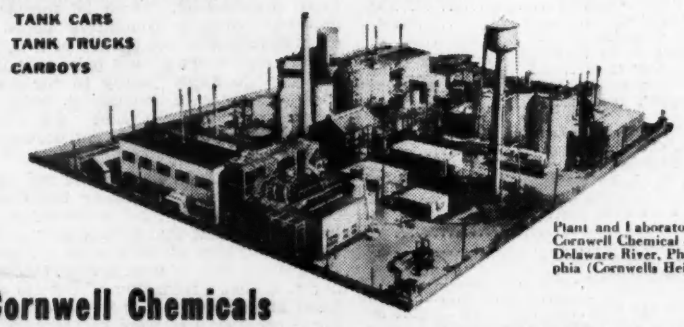

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